Open Source Used In Cisco Unified Communication Manager 12.0.1.SU5

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1.5 libvorbis 1.2.3 4.el6_2.1

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1.7 bash 4.1.2 40.el6
1.7.1 Available under license:

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
Hi. I snagged some of your bash functions from your home directory on the FSF machines (naughty, I know), and I was wondering if you'd let me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in ~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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

John

On May 9, 1:36pm, Chet Ramey wrote:
> } Subject: ksh scripts
> } From odin.ins.cwru.edu\chet Tue May 9 10:39:51 1995
> } Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
> } 9 May 95 10:39 PDT
> } Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
> } id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
> } Date: Tue, 9 May 1995 13:36:54 -0400
> } From: Chet Ramey <chet@odin.ins.cwru.edu>
> } To: john@armory.com
> } Subject: ksh scripts


Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

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

Chet Ramey

```
```

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

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@c ispell-local-pdict: "ispell-dict"
@c End:
From mikel@ora.com Tue Aug  1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
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id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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1.8 regexp 2.7.0

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

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/**
 * Gets the optional <code>versionIdMarker</code> parameter indicating where in the
 * sorted list of all versions in the specified bucket to begin returning
 * results. Results are always ordered first lexicographically (i.e.
 * alphabetically) and then from most recent version to least recent
 * version.
 * <p>
 * A key marker must be specified when specifying a <code>versionIdMarker</code>.
 * Results begin immediately after the version with the specified key and
 * version ID.
 * </p>
 * 
 * @return The optional <code>versionIdMarker</code> parameter indicating where in the
 *         sorted list of all versions in the specified bucket to begin
 *         returning results.
 * 
 * @see ListVersionsRequest#setVersionIdMarker(String)
 * @see ListVersionsRequest#withVersionIdMarker(String)
 */

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jar/com/amazonaws/services/s3/model/GeneratePresignedUrlRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/internal/TransferProgressUpdatingListener.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/internal/CopyPartCallable.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/CannedAccessControlList.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/S3RequestEndpointResolver.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/ObjectMetadata.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/transform/AbstractSSEHandler.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/VersionListing.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/DeleteObjectRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/ProgressListener.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/InitiateMultipartUploadResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/CompleteMultipartUploadResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/internal/ObjectRestoreHandler.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/S3ClientOptions.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/internal/BucketNameUtils.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/auth/policy/actions/S3Actions.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/internal/S3VersionHeaderHandler.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/InitiateMultipartUploadRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/GetObjectMetadataRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/transform/Unmarshallers.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/EncryptionMaterials.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/auth/policy/resources/S3BucketResource.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/internal/S3V4AuthErrorRetryStrategy.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/TransferManagerConfiguration.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/metrics/S3ServiceMetric.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/transform/AbstractHandler.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/internal/S3Signer.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/internal/InputSubstream.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/internal/ErrorResponseHandler.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/TransferProgress.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/TransferProgress.java
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jar/com/amazonaws/services/s3/transfer/TransferProgress.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/TransferProgress.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/TransferProgress.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/TransferProgress.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/TransferProgress.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/TransferProgress.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/TransferProgress.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/TransferProgress.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/TransferProgress.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/TransferProgress.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/TransferProgress.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/TransferProgress.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/TransferProgress.java
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jar/com/amazonaws/services/s3/model/StaticEncryptionMaterialsProvider.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/Download.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-1-11-61-sources-1-
jar/com/amazonaws/services/s3/iterable/S3Objects.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-1-11-61-sources-1-
jar/com/amazonaws/services/s3/iterable/S3Versions.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/internal/DownloadImpl.java

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jar/com/amazonaws/services/s3/model/SetBucketReplicationConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/GetBucketTaggingConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/GetBucketCrossOriginConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-1-11-61-sources-1-
jar/com/amazonaws/services/s3/internal/FileLocks.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/GetBucketAccelerateConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/ListNextBatchOfObjectsRequest.java
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 */*
// The Amazon S3 DevPay token header is a special exception and can be safely moved

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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/AmazonS3Client.java
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jar/com/amazonaws/services/s3/event/S3EventNotification.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/PauseResult.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/package-info.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/DeleteVersionRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/SetBucketLoggingConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/SetBucketCrossOriginConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/ObjectListing.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/BucketVersioningConfiguration.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/SetBucketTaggingConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/S3ObjectSummary.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/GroupGrantee.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/SetBucketLifecycleConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/S3VersionSummary.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/MultiFactorAuthentication.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/SetBucketVersioningConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/internal/MD5DigestCalculatingInputStream.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/Permission.java

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 */

/*
 * Synchronous client for accessing Amazon S3.
 *
 * <h1>Appendix: Amazon S3 client-side encryption meta information</h1>
 *
 * <h2>Introduction</h2>
 *
 * This appendix summarizes the current crypto related meta information
 * associated with an S3 object encrypted using SDK client-side encryption. In
 * SDK's terminology, these meta information are classified as "user metadata".
 * In general, the meta information is just a map of key/value pairs. Physically
 * they are persisted either as metadata of the encrypted S3 object, or as a
 * separate S3 object called an "instruction file" (which is just a JSON file in
 * plaintext.) For all references to the Cipher Algorithm Names, Modes, and Padding,
 * such as <code>AES/CBC/PKCS5Padding</code>, please refer to Oracle's<a
 * href="http://docs.oracle.com/javase/7/docs/technotes/guides/security/StandardNames.html">Java&trade; Cryptography Architecture Standard Algorithm Name Documentation</a>
 * for more details.
 *
 * <h2>S3 metadata vs instruction file</h2>
 *
 * Note when a key/value pair is stored as "user metadata" as part of the S3
 * metadata, the SDK always adds an additional prefix of <b>x-amz-meta-</b> to
 * the key name. In contrast, the SDK doesn't add any prefix when the key names
 * are stored in an instruction file. (The reason has to do with how the http
 * headers are handled.)
 *
For example, `<b>x-amz-key</b>` would get stored as `<b>x-amz-meta-x-amz-key</b>` in S3 metadata. In contrast, `<b>x-amz-key</b>` would simply be stored as is (ie without the prefix) in an instruction file.

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

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

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

```
<table>
<thead>
<tr>
<th>key</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>x-amz-key</td>
<td>Content encrypting key (cek) in encrypted form, base64 encoded. The cek is randomly generated per S3 object, and is always an AES 256-bit key. The corresponding cipher is always &quot;AES/CBC/PKCS5Padding&quot;.</td>
</tr>
<tr>
<td>x-amz-iv</td>
<td>Randomly generated IV (per S3 object), base64 encoded</td>
</tr>
<tr>
<td>x-amz-matdesc</td>
<td>Customer provided material description in JSON (UTF8) format. Used to identify the client-side master key (ie used to encrypt/unwrap the generated content encrypting key).</td>
</tr>
<tr>
<td>x-amz-unencrypted-content-length</td>
<td>Unencrypted content length (optional but should be specified whenever possible).</td>
</tr>
</tbody>
</table>
```

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

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

```html
* <p>
* <table border=1>
* <tr aligned="left">
* <th>key</th>
* <th>description</th>
* </tr>
* </table>
* <tr>
* <td width="200"><b>x-amz-key-v2</b></td>
* <td>CEK in key wrapped form. This is necessary so that the S3 encryption client that doesn't recognize the v2 format will not mistakenly decrypt S3 object encrypted in v2 format.</td>
* </tr>
* <tr>
* <td><b>x-amz-iv</b></td>
* <td>Randomly generated IV (per S3 object), base64 encoded. (Same as v1.)</td>
* </tr>
* <tr>
* <td><b>x-amz-matdesc</b></td>
* <td>Customer provided material description in JSON format. (Same as v1). Used to identify the client-side master key.</td>
* </tr>
* <li>For KMS client side encryption, the KMS Customer Master Key ID is stored as part of the material description, <b>x-amz-matdesc</b>, under the key-name <code>"kms_cmk_id"</code>.</li>
* </ul>
* </li>
* </ul>
* </li>
* </td>
* </tr>
* </table>
* Unencrypted content length. (optional but should be specified whenever possible. Same as v1.)
* </tr>
* </td>
* </tr>
* </table>
* <li>Supported values:</li>
* <code>"AESWrap", "RSA/ECB/OAEPWithSHA-256AndMGF1Padding", "kms"</code>
* No standard key wrapping is used if this meta information is absent
* Always set to <code>"kms"</code> if KMS is used for client-side encryption
* </ul>
* </li>
* </ul>
* </li>
* </td>
* </tr>
* <td><b>x-amz-cek-alg</b></td>
* <td>Content encryption algorithm used.
* </ul>
```
* Supported values:

* "AES/GCM/NoPadding", "AES/CBC/PKCS5Padding"

* Default to "AES/CBC/PKCS5Padding" if this key is absent.

* Only applicable if AEAD is in use. This meta information is absent otherwise, or if KMS is in use.

* Supported value: "128"

* All client-side KMS protected S3 objects are stored in v2 crypto meta information format. However, the key wrapping algorithm, "x-amz-wrap-alg" is always set to "kms".

* The KMS Customer Master Key ID is currently stored as part of the material description, "x-amz-matdesc", under the key-name "kms_cmk_id".

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

```
x-amz-meta-x-amz-key-v2:
CiAJ2GqwpJRnt4izuwoalC2YdNRNSMEsI5G5rw3pEI+J8hKnAQEBAwB4CdhqsKSUZ7es7o8KGPQtmHTUTUjBLJRua8N6RCPifAAAB+MHwGCSqGSlb3DQEHBqBvMG0CAQAwaAYJKoZlhcNAQcBMB4GCWCGSAFlAwQBLjARBAyD0rzN3KHViWixDVcCARCAOwhZ6xA8rob3Z0mNx3uKFieHKVyIC/PIchALvG1oVLnfs86mcZJNpTXtwMkKkDocVj3Z1zGjZTu6F6s0H
x-amz-iv: xqOHh+B6y0UogwG5SHJM3Q==
x-amz-unencrypted-content-length: 32768
x-amz-cek-alg: AES/CBC/PKCS5Padding
x-amz-wrap-alg: kms
x-amz-matdesc: {"kms_cmk_id":d3fd2273-4ca0-4da5-b1c2-c89742ec6a26}"
```
* <pre>
* x-amz-key-v2:
CiAJ2GqwpJRnt4izujwoalC2YdNRNSMElG5r3pE1+J8hKnAQEBAwB4CdhqsKSUZ7eIs7o8KGpQtmHTUTUj
BLJRua8N6RCpiIAAAAB+MHwGCSqGSIb3DQEHBqBvMG0CAQAwAAJYoZlhcNAQcBMB4GCGSAFl
AwQBLjARBAytFVvW4h6QmcoPKIECARCAO1VzomkA9DHyNMm/BEbbjle2vLAgY7IYf9OkUSqdxgKxp
NID9QaL/7928m1Djtd0IjHejmn89C
* x-amz-iv: VZBksyi6DrhrUMye
* x-amz-unencrypted-content-length: 32768
* x-amz-cek-alg: AES/GCM/NoPadding
* x-amz-wrap-alg: kms
* x-amz-matdesc: "{"kms_cmk_id":"d3fd2273-4ca0-4da5-b1c2-c89742ec6a26"}
* x-amz-tag-len: 128
* </pre>

* <h2>S3 metadata of an instruction file</h2>

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

Found in path(s):
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/package-info.java
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  jar/com/amazonaws/services/s3/model/transform/ObjectTaggingXmlFactory.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/BucketAccelerateStatus.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/GetObjectAclRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/DeleteObjectTaggingResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/ObjectTagging.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/internal/DeleteObjectTaggingHeaderHandler.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/DeleteObjectTaggingRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/ObjectTagging.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/SetObjectTaggingResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/Tag.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/GetObjectTaggingRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/internal/S3VersionResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/S3AccelerateUnsupported.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/internal/S3RequesterChargedHeaderHandler.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/GetObjectTaggingResult.java

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  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/transfer/MultipleFileDownload.java
  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/transfer/internal/MultipleFileTransferMonitor.java
  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/transfer/MultipleFileUpload.java
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  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/transfer/internal/TransferStateChangeListener.java
  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/transfer/internal/MultipleFileUploadImpl.java
  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/transfer/internal/MultipleFileDownloadImpl.java
  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/transfer/internal/MultipleFileTransfer.java

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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/internal/crypto/KMSSecuredCEK.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/internal/SkipMd5CheckStrategy.java
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/**
* Interface for providing encryption materials.
* Implementations are free to use any strategy for providing encryption
* materials, such as simply providing static material that doesn't change,
* or more complicated implementations, such as integrating with existing
* key management systems.
*/

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  jar/com/amazonaws/services/s3/waiters/HeadObjectFunction.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/waiters/HeadBucketFunction.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/waiters/AmazonS3Waiters.java

1.13 datatype 1.4.01

1.14 grep 2.20 3.el6_7.1
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1.16 tftp-hpa 0.49-8.el6

1.16.1 Available under license:

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* This program is free software available under the same license              *
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Found in path(s):
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.h
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.c

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/* -*- c -*- ------------------------------------------------------------- */

Open Source Used In Cisco Unified Communication Manager 12.0.1.SU5 191
Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildPreReq: tcp_wrappers
BuildRoot: %(_tmppath)/%{name}-root

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

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

description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

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

build

configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

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

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

%clean
rm -rf ${RPM_BUILD_ROOT}

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

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

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

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

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
   - rebuilt
* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

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

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

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

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

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

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

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

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

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

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

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

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

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one
Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update to tftp-hpa-0.16

Wed Apr  4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

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

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

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

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

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

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

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

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

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

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

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

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

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

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

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

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

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

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

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

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

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

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

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

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

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build
Found in path(s):
*/opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp.spec.in
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*/
*/----------------------------------------------- */
```

Found in path(s):
*/opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/tftp.1.in
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Found in path(s):
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/tftp.c
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/main.c
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.c
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/MCONFIG.in
No license file was found, but licenses were detected in source scan.

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* http://www.openbsd.org/.
*
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---

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 0.49
%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

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

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

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

%build
make %{_smp_mflags}

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

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

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

%clean
rm -rf ${RPM_BUILD_ROOT}

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

%files server
%defattr(-,root,root)
%{sysconfdir}/xinetd.d/tftp
%{_bindir}/in.tftpd
%{_mandir}/man8/*

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

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

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

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

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

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

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

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32
* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

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

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

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

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

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

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

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

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

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

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  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16

* Wed Apr  4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

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

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

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

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

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

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

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

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

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

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

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

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

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).
/*
* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
*   man pages are compressed
*   fix description and summary
*
* Tue Jan  4 2000 Bill Nottingham <notting@redhat.com>
*   split client and server
*
* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
*   update to 0.16.
*
* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
*   update to 0.15.
*
* Wed Apr  7 1999 Jeff Johnson <jbj@redhat.com>
*   tftpd should truncate file when overwriting (#412)
*
* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
*   auto rebuild in the new build environment (release 22)
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* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
*   compile for 6.0.
*
* Fri Aug  7 1998 Jeff Johnson <jbj@redhat.com>
*   build root
*
* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
*   translations modified for de, fr, tr
*
* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
*   added check for getpwnam() failure
*
* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
*   initial build
*
Found in path(s):
* /opt/cola/permits/115513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp.spec
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* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp-extern.h
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.h

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* ................................................................. */

Found in path(s):
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.h

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1.17 gdbm 1.8.0 39.el6
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That's all there is to it!

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#
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set -e

# Command line arguments:
# $1 event that happened:
#   BIND: Successfully claimed address
#   CONFLICT: An IP address conflict happened
#   UNBIND: The IP address is no longer needed
#   STOP: The daemon is terminating
# $2 interface name
# $3 IP address

# We have the BSD ifconfig tool

case "$1" in
  BIND)
    ifconfig "$2" "$3"/16
    ;;
  CONFLICT|STOP|UNBIND)
    ifconfig "$2" "$3"/16 delete
    ;;
  *)
    echo "Unknown event $1" >&2
    exit 1
    ;;
  esac

exit 0

1.21 expat 2.2.0

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1.22 readline 6.0-4.el6

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.gitignore

builds/unix/pkg.m4
docs/FTL.TXT
docs/GPLv2.TXT
include/freetype/internal/fthash.h
src/base/fthash.c
src/base/md5.c
src/base/md5.h
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF

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1.24 open-ws 1.5.4

1.25 glibc 2.12

1.25.1 Available under license :

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Convey individual copies of the object code with a copy of the written
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@item
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[This is the first released version of the library GPL. It is
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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therefore falls outside the scope of this License.

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Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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Version 3, 29 June 2007

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@appendixsubsec Preamble

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

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

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

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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work, in isolation, is not a derivative work of the Library, and
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However, linking a ``work that uses the Library'' with the Library
creates an executable that is a derivative of the Library (because it
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library''. The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

As an exception to the Sections above, you may also combine or
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Accompany the work with the complete corresponding
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with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
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Use a suitable shared library mechanism for linking with the Library. A
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library already present on the user’s computer system, rather than
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@var{signature of Ty Coon}, 1 April 1990
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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1.28 mysql 5.1.73 8.el6_8

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1.30 cryptsetup 1.2.0-11.el6

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ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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QLogic Linux FC-FCoE Driver

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POSSIBILITY OF SUCH DAMAGES.
#ifndef __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

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

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for the support of the Fujitsu-Siemens Activity budget DVB-S

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for the IR code for the ttusb-dec driver

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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Jean-loup Gailly        Mark Adler
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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if
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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/CollectionFactory.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/type/StandardMethodMetadata.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/io/AbstractResource.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java
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  jar/org/springframework/core/io/support/ResourcePropertySource.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
  jar/org/springframework/core/LocalVariableTableParameterNameDiscoverer.java
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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1.jar/org/springframework/core/AttributeAccessor.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1.jar/org/springframework/core/ConstantException.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1.jar/org/springframework/core/io/support/LocalizedResourceHelper.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1.jar/org/springframework/core/io/InputStreamResource.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1.jar/org/springframework/core/SpringVersion.java
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1.47 commons-beanutils 1.8.2

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* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/scopedpool/SoftValueHashMap.java
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* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/NotFoundException.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/expr/ConstructorCall.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/URLClassPath.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/CtNewMethod.java
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  jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
  jar/javassist/bytecode/annotation/MemberValueVisitor.java
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  jar/javassist/bytecode/annotation/ArrayMemberValue.java
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

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

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

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

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*/
--- openssh-5.3p1/sftp-server.82015-02-10 10:08:09.611849984 +0100
+++ openssh-5.3p1/sftp-server.8.perms2015-02-10 10:08:52.204120509 +0100
@@ -33,6 +33,7 @@
 .Op Fl f Ar log_facility
 .Op Fl l Ar log_level
 .Op Fl u Ar umask
+ .Op Fl m Ar force_file_perms
 .Sh DESCRIPTION
 .Nm
 is a program that speaks the server side of SFTP protocol
@@ -77,6 +78,10 @@ Sets an explicit
.Xr umask 2
 to be applied to newly-created files and directories, instead of the
 user's default mask.
+ .It Fl m Ar force_file_perms
+ Sets explicit file permissions to be applied to newly-created files instead
+ of the default or client requested mode. Numeric values include:
+ 777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
 .El
 .Pp
 For logging to work,
/* Force file permissions */
int permforce = 0;
long permforcemode;

/* portable attributes, etc. */

typedef struct Stat Stat;

int version;

process_open(void)
    Attrib *a;
    char *name;
    int handle, fd, flags, mode, status = SSH2_FX_FAILURE;
    mode_t old_umask;

    id = get_int();
    name = get_string(NULL);

    a = get_attrib();
    flags = flags_from_portable(pflags);
    mode = (a->flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a->perm : 0666;
    if (permforce == 1) {   /* Force perm if -m is set */
        mode = permforcemode;
        old_umask = umask(0); /* so umask does not interfere */
    }
    logit("open "%s" flags %s mode 0%o",
        name, string_from_portable(pflags), mode);
    fd = open(name, flags, mode);
    if (permforce == 1)
        (void) umask(old_umask); /* restore umask to something sane */
    if (fd < 0) {
        status = errno_to_portable(errno);
    } else {
        sftp_server_usage(void)
            extern char *__progname;
            fprintf(stderr,
                "usage: %s [-he] [-l log_level] [-f log_facility] [-u umask]un",
                __progname);
            exit(1);
        }
Open Source Used In Cisco Unified Communication Manager 12.0.1.SU5 758

@@ -1343,7 +1351,7 @@ sftp_server_main(int argc, char **argv,
       __progname = ssh_get_progname(argv[0]);
-log_init(__progname, log_level, log_facility, log_stderr);

-while (!skipargs && (ch = getopt(argc, argv, "f:l:u:che")) != -1) {
+while (!skipargs && (ch = getopt(argc, argv, "f:l:u:m:che")) != -1) {
    switch (ch) {
    case 'c':
        /*
@@ -1373,6 +1381,15 @@ sftp_server_main(int argc, char **argv,
         fatal("Invalid umask \"%s\"", optarg);
         (void)umask((mode_t)mask);
         break;
+    case 'm':
+        /* Force permissions on file received via sftp */
+        permforce = 1;
+        permforcemode = strtol(optarg, &cp, 8);
+        if (permforcemode < 0 || permforcemode > 0777 ||
+            *cp != '=' || permforcemode == 0 &&
+            errno != 0))
+            fatal("Invalid file mode \"%s\"", optarg);
+        break;
+    case 'h':
+        default:
+        sftp_server_usage();
         # OpenBSD: bsd.regress.mk,v 1.9 2002/02/17 01:10:15 marc Exp $
         # No man pages for regression tests.
         NOMAN=

         # No installation.
         install:

         # If REGRESSTARGETS is defined and PROG is not defined, set NOPROG
         .if defined(REGRESSTARGETS) && !defined(PROG)
         NOPROG=
         .endif

         .include <bsd.prog.mk>

         .MAIN: all
         all: regress

         # XXX - Need full path to REGRESSLOG, otherwise there will be much pain.

         REGRESSLOG?=/dev/null
         REGRESSNAME=${.CURDIR:S/${BSDSRCDIR}/regress//}

         .if defined(PROG) && !empty(PROG)
run-regress-$(PROG): $(PROG)

/$(PROG)

.endif

.if !defined(REGRESSTARGETS)
REGRESSTARGETS=run-regress-$(PROG)
  . if defined(REGRESSSKIP)
REGRESSSKIPTARGETS=run-regress-$(PROG)
  . endif
.endif

REGRESSSKIPSLOW?=no

#.if ($(REGRESSSKIPSLOW:=="yes") && defined(REGRESSSLOWTARGETS)

.if ($(REGRESSSKIPSLOW:=="yes") && defined(REGRESSSLOWTARGETS)
REGRESSSKIPTARGETS+=$(REGRESSSLOWTARGETS)

.endif

.if defined(REGRESSROOTTARGETS)
ROOTUSER!=id -g
SUDO?= 
  . if ($(ROOTUSER) != 0) && empty(SUDO)
REGRESSSKIPTARGETS+=$(REGRESSROOTTARGETS)
  . endif
.endif

REGRESSSKIPTARGETS?=

regress:
  .for RT in $(REGRESSTARGETS)
    . if !defined(REGRESSSKIPTARGETS:M$RT})
      @echo -n "SKIP " >> $(REGRESSLOG)
    . else
      # XXX - we need a better method to see if a test fails due to timeout or just
      # normal failure.
      . if !defined(REGRESSMAXTIME)
      @if cd ${.CURDIR} && $(MAKE) $RT; then \ 
      echo -n "SUCCESS " >> $(REGRESSLOG) ; \
    else \ 
      echo -n "FAIL " >> $(REGRESSLOG) ; \
      echo FAILED ; \\
    fi
    . else
      @if cd ${.CURDIR} && (ulimit -t $(REGRESSMAXTIME) ; $(MAKE) $RT)); then \ 
      echo -n "SUCCESS " >> $(REGRESSLOG) ; \
    else \ 
      echo -n "FAIL (possible timeout) " >> $(REGRESSLOG) ; \\
echo FAILED ; \
fi
  . endif
  . endif
@echo ${REGRESSNAME}/${RT:S/^run-regress-//} >> ${REGRESSLOG}
.endfor

.PHONY: regress
This package was debianized by Jamie Beverly <soupboy@sourceforge.net> on
Wed, 13 Jan 2010 01:08:49 +0300.

It was downloaded from http://pamsshagentauth.sf.net/

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

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#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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

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

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !_BSD_WAITPID_H */
#endif /* #ifdef HAVE_WAITPID */
#endif /* #ifdef _BSD_WAITPID_H */
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*/

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

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#endif

#ifndefCompat_poll_h_
#defineCompat_poll_h_

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

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLRERR0x0008

#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLHUP0x0010
#define POLLNVAL0x0020
#define POLLRDNDNM0x0040
#define POLLNORMPOLLRDNDNORM
#define POLLWRNORM POLLOUT
#define POLLRDNDM0x0080
#define POLLWRBAND 0x0100
#endif

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

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

1.61 redis 3.2.5
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<!-- $Id: ui_license.html,v 1.1.1.1 2004/05/18 01:50:44 kgibbs Exp $ -->
</head>

<body bgcolor="#FFFFFF" link="#006633" vlink="#669900" alink="#669966">

<center>
<img src="dast.gif" alt="Distributed Applications Support Team">
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```
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<HR>!--- ----- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- -->

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1.71 mtd-utils 1.5.1

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* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
  jar/org/springframework/core/convert/support/ObjectToArrayConverter.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
  jar/org/springframework/core/convert/support/PropertyTypeDescriptor.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
  jar/org/springframework/core/convert/support/ConversionUtils.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
  jar/org/springframework/core/GenericTypeResolver.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
  jar/org/springframework/util/StringUtils.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
  jar/org/springframework/core/convert/support/ObjectToCollectionConverter.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
  jar/org/springframework/core/convert/support/CollectionToCollectionConverter.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
  jar/org/springframework/core/convert/support/ConversionUtils.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
  jar/org/springframework/core/GenericTypeResolver.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
  jar/org/springframework/core/convert/support/ConversionUtils.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
  jar/org/springframework/core/convert/support/ConversionUtils.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
  jar/org/springframework/core/convert/support/ConversionUtils.java
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  jar/org/springframework/core/convert/support/ConversionUtils.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
  jar/org/springframework/core/convert/support/ConversionUtils.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
  jar/org/springframework/core/convert/support/ConversionUtils.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
  jar/...
jar/org/springframework/core/convert/support/ArrayToArrayConverter.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
jar/org/springframework/core/BridgeMethodResolver.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
jar/org/springframework/core/ExceptionDepthComparator.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
jar/org/springframework/core/convert/support/CollectionToObjectConverter.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
jar/org/springframework/core/io/AbstractFileResolvingResource.java
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* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
jar/org/springframework/core/io/InputStreamSource.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1-
jar/org/springframework/core/type/filter/AssignableFromTypeFilter.java
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* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1.jar/org/springframework/core/ConstantException.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1.jar/org/springframework/core/annotation/AnnotationAwareOrderComparator.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1.jar/org/springframework/core/AttributeAccessor.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1.jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1.jar/org/springframework/core/io/InputStreamResource.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1.jar/org/springframework/core/io/support/LocalizedResourceHelper.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1.jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1.jar/org/springframework/core/ParameterNameDiscoverer.java
* /opt/ws_local/PERMITS_SQL/1076001978_1596255919.43/0/spring-core-3-0-7-release-sources-1.jar/org/springframework/core/SpringVersion.java

1.74 esapi 2.0.1
1.74.1 Available under license:

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// Because attribute values may be confidential, we don't want to log them!

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 * @author Arshan Dabirsiaghi <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2009
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Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/waf/rules/ReplaceContentRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/waf/rules/GeneralAttackSignatureRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/waf/rules/AddHTTPOnlyFlagRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
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 * @created 2009
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Found in path(s):
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 * @created 2009
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Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/PreparedString.java
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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author kevin.w.wall@gmail.com
 * @created 2007
 */

/**
 * Encrypts the provided plaintext and returns a ciphertext string using the
 * master secret key and default cipher transformation.
 * </p>
 *
 * <h1>Compatibility with earlier ESAPI versions:</h1> The symmetric encryption
 * in ESAPI 2.0 and later is not compatible with the encryption in ESAPI 1.4
 * or earlier. Not only are the interfaces slightly different, but they format
 * of the serialized encrypted data is incompatible. Therefore, if you have
 * encrypted data with ESAPI 1.4 or earlier, you must first encrypt it and
 * then re-encrypt it with ESAPI 2.0. Backward compatibility with ESAPI 1.4
 * was proposed to both the ESAPI Developers and ESAPI Users mailing lists
 * and voted down. More details are available in the ESAPI document
 * Why Is OWASP Changing ESAPI Encryption?</a>
 */
* Why this method is deprecated:

Most cryptographers strongly suggest that if you are creating crypto functionality for general-purpose use, at a minimum you should ensure that it provides authenticity, integrity, and confidentiality. This method only provides confidentiality, but not authenticity or integrity. Therefore, you are encouraged to use one of the other encryption methods referenced below. Because this method provides neither authenticity nor integrity, it may be removed in some future ESAPI Java release. Note: there are some cases where authenticity / integrity are not that important. For instance, consider a case where the encrypted data is never out of your application's control. For example, if you receive data that your application is encrypting itself and then storing the encrypted data in its own database for later use (and no other applications can query or update that column of the database), providing confidentiality alone might be sufficient. However, if there are cases where your application will be sending or receiving already encrypted data over an insecure, unauthenticated channel, in such cases authenticity and integrity of the encrypted data likely is important and this method should be avoided in favor of one of the other two.

* \param plaintext

    the plaintext \{ @code String \} to encrypt. Note that if you are encrypting general bytes, you should encrypt that byte array to a String using "UTF-8" encoding.

* \returns

    the encrypted, base64-encoded String representation of 'plaintext' plus the random IV used.

* \throws EncryptionException

    if the specified encryption algorithm could not be found or another problem exists with the encryption of 'plaintext'

* \see #encrypt(PlainText)

* \see #encrypt(SecretKey, PlainText)

* \@deprecated As of 1.4.2; use \{ @link #encrypt(PlainText) \} instead, which also ensures message authenticity. This method will be completely removed as of the next major release or point release (3.0 or 2.1, whichever comes first) as per OWASP deprecation policy.

/*

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Encryptor.java

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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
* An IntrusionException should be thrown anytime an error condition arises that is likely to be the result of an attack
* in progress. IntrusionExceptions are handled specially by the IntrusionDetector, which is equipped to respond by
* either specially logging the event, logging out the current user, or invalidating the current user's account.
* <P>
* Unlike other exceptions in the ESAPI, the IntrusionException is a RuntimeException so that it can be thrown from
* anywhere and will not require a lot of special exception handling.
* @author Jeff Williams (jeff.williams@aspectsecurity.com)
*/

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/errors/IntrusionException.java
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Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/ExecuteResult.java
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/**
 * The method is ESAPI's Key Derivation Function (KDF) that computes a
 * derived key from the {code keyDerivationKey} for either
 * encryption / decryption or for authentication.
 * <p>
 * **CAUTION:** If this algorithm for computing derived keys from the
 * key derivation key is ever changed, we risk breaking backward compatibility of being
 * able to decrypt data previously encrypted with earlier / different versions
 * of this method. Therefore, do not change this unless you are 100% certain that
 * what you are doing will NOT change either of the derived keys for
 * ANY "key derivation key" AT ALL!!!
 * <p>
 * **NOTE:** This method is generally not intended to be called separately.
 * It is used by ESAPI's reference crypto implementation class {code JavaEncryptor}
 * and might be useful for someone implementing their own replacement class, but
 * generally it is not something that is useful to application client code.
 * <p>
 * @param keyDerivationKey A key used as an input to a key derivation function
 * to derive other keys. This is the key that generally
 * is created using some key generation mechanism such as
 * {code generateSecretKey(String, int)}. The
 * "input" key from which the other keys are derived.
 * The derived key will have the same algorithm type
 * as this key.
 * @param keySize The cipher's key size (in bits) for the {code keyDerivationKey}.
 * Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
 * <p>
 * **Note:** The derived key will have the same size as this.
 * @param purpose The purpose for the derived key. Must be either the
 * string "encryption" or "authenticity". Use "encryption" for
 * creating a derived key to use for confidentiality, and "authenticity"
 * for a derived key to use with a MAC to ensure message authenticity.
 * @return The derived {code SecretKey} to be used according
 * to the specified purpose. Note that this serves the same purpose
 * as "label" in section 5.1 of NIST SP 800-108.
 * @throws NoSuchAlgorithmException The {code keyDerivationKey} has an unsupported
 * encryption algorithm or no current JCE provider supports
 * "HmacSHA1".
 * @throws EncryptionExceptionIf "UTF-8" is not supported as an encoding, then
 * this is thrown with the original {code UnsupportedEncodingException}
 * as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
 * be a common encoding supported by all Java implementations. Support
 * for it is usually in rt.jar.)
 * @throws InvalidKeyException Likely indicates a coding error. Should not happen.
 * @throws EncryptionException Throw for some precondition violations.
 * @deprecated Use {code KeyDerivationFunction} instead. This method will be removed as of
 * ESAPI release 2.1 so if you are using this, please change your code.
/**
 * Return true if specified cipher mode is one of those specified in the
 * {@code ESAPI.properties} file that supports both confidentiality
 * and authenticity (i.e., a "combined cipher mode" as NIST refers
 * to it).
 * @param cipherMode The specified cipher mode to be used for the encryption
 * or decryption operation.
 * @return true if the specified cipher mode is in the comma-separated list
 * of cipher modes supporting both confidentiality and authenticity;
 * otherwise false.
 * @see org.owasp.esapi.SecurityConfiguration#getCombinedCipherModes()
 */

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/opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/HTMLValidationRule.java
/opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AuthenticationHostException.java
/opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/PercentCodec.java
/opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/MySQLCodec.java
/opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/WindowsCodec.java
/opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/StringUtilities.java
jar/org/owasp/esapi/reference/DefaultUser.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ValidationException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Randomizer.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/AccessController.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/Codec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/HTMLEntityCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/VBScriptCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/EncryptedProperties.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/CreditCardValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/CreditCardValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/EncryptedProperties.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/CreditCardValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/EncryptedProperties.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/CertificateException.java

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* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/errors/EncryptionRuntimeException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java
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 * 
 */

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/codecs/XMLEntityCodec.java
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 * @author Rogan Dawes <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2008
 */

Found in path(s):
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created February 6, 2009
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author Jim Manico (jim@manico.net) <a href="http://www.manico.net">Manico.net</a>
 * @created 2007
 */

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/reference/DefaultValidator.java
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Found in path(s):
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/**
 * <p>Encodes and decodes to and from Base64 notation.</p>
 * <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>
 * 
 * The <tt>options</tt> parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * encodeBytes( bytes, options ) the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds
 * (though that breaks strict Base64 compatibility), and encoding using the URL-safe
 * and Ordered dialects.</p>
 * 
 * The constants defined in Base64 can be OR-ed together to combine options, so you
 * might make a call like this:</p>
 * 
 * <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES );</code>
 * 
 * to compress the data before encoding it and then making the output have no newline characters.</p>
 *
 *
 * Change Log:
 * </p>
 * <ul>
 * <li>v2.2.2 - Fixed encodeFileToFloat and decodeFileToFloat to use the
* Base64.InputStream class to encode and decode on the fly which uses
* less memory than encoding/decoding an entire file into memory before writing.
* v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~< 40 bytes).
* v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
* v1.5 - Output stream passes on flush() command but doesn't do anything itself.
* Now everything is more consolidated and cleaner. The code now detects
* when data that's being decoded is gzip-compressed and will decompress it
* automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (int OR together). v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using decode( String s, boolean gzipCompressed ).
* Added the ability to "suspend" encoding in the Output Stream so
* you can turn on and off the encoding if you need to embed base64
* data in an otherwise "normal" stream (like an XML file).
* v1.5 - Output stream pases on flush() command but doesn't do anything itself.
* This helps when using GZIP streams.
* Added the ability to GZip-compress objects before encoding them.
* v1.4 - Added helper methods to read/write files.
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
* where last buffer being read, if not completely full, was not returned.
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
* v1.3.3 - Fixed I/O streams which were totally messed up.
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plenty of well-wishing instead!
Please visit a href="http://iharder.net/base64">http://iharder.net/base64</a>
periodically to check for updates or to contribute improvements.

@author Robert Harder
@author rob@iharder.net
@version 2.2.2

Found in path(s):
/nopt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/Base64.java
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* @author Chris Schmidt (chris.schmidt@owasp.org)
* @created 2010
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/nopt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/crypto/CryptoDiscoverer.java
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/reference/accesscontrol/FileBasedACRs.java
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author kevin.w.wall@gmail.com
* @created 2007
*/

// Using cipher mode that supports *both* confidentiality *and* authenticity? If so, then
// If we are using a "preferred" cipher mode--i.e., one that supports *both* confidentiality and

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/reference/crypto/JavaEncryptor.java
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/**
* The method is ESAPI's Key Derivation Function (KDF) that computes a
* derived key from the { @code keyDerivationKey} for either
* encryption / decryption or for authentication.
* <p>
* <b>CAUTION:</b> If this algorithm for computing derived keys from the
* key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being
* able to decrypt data previously encrypted with earlier / different versions
* of this method. Therefore, do not change this unless you are 100% certain that
* what you are doing will NOT change either of the derived keys for
* ANY "key derivation key" AT ALL!!!
* <p>
* <b>NOTE:</b> This method is generally not intended to be called separately.
* It is used by ESAPI's reference crypto implementation class [@code JavaEncryptor]
* and might be useful for someone implementing their own replacement class, but
* generally it is not something that is useful to application client code.
*
* @param keyDerivationKey A key used as an input to a key derivation function
* to derive other keys. This is the key that generally
* is created using some key generation mechanism such as
* [@link #generateSecretKey(String, int)]. The
* "input" key from which the other keys are derived.
* The derived key will have the same algorithm type
* as this key. This KDK cannot be null.
* @param keySizeThe cipher's key size (in bits) for the [@code keyDerivationKey].
* Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
* <b>Note:</b> The derived key will have the same size as this.
* @param purposeThe purpose for the derived key. For the ESAPI reference implementation,
* [@code JavaEncryptor], this <i>must</i> be either the string "encryption" or
* "authenticity", where "encryption" is used for creating a derived key to use
* for confidentiality, and "authenticity" is used for creating a derived key to
* use with a MAC to ensure message authenticity. However, since parameter serves
* the same purpose as the "Label" in section 5.1 of NIST SP 800-108, it really can
* be set to anything other than [@code null] or an empty string when called outside
* of [@code JavaEncryptor].
* @return The derived [@code SecretKey] to be used according
* to the specified purpose.
* @throws NoSuchAlgorithmException The [@code keyDerivationKey] has an unsupported
* encryption algorithm or no current JCE provider supports
* "HmacSHA1".
* @throws EncryptionException If "UTF-8" is not supported as an encoding, then
* this is thrown with the original [@code UnsupportedEncodingException]
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException Throw for some precondition violations.
*/

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/crypto/KeyDerivationFunction.java
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* 
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
 * The reference implementation sets the work directory, escapes the parameters as per the Codec in use,
 * and then executes the command without using concatenation. The exact, absolute, canonical path of each
 * executable must be listed as an approved executable in the ESAPI properties. The executable must also
 * exist on the disk. All failures will be logged, along with parameters if specified. Set the logParams to false if
 * you are going to invoke this interface with confidential information.
 */

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/reference/DefaultExecutor.java

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 * @created 2007
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Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/reference/AbstractAccessReferenceMap.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/reference/Log4JLogger.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/codecs/OracleCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/reference/Log4JLogFactory.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/reference/DefaultHTTPUtilities.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/reference/crypto/ReferenceEncryptedProperties.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/reference/DefaultSecurityConfiguration.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/HTTPUtilities.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/Validator.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/reference/Log4JLoggerFactory.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/reference/FileBasedAuthenticator.java
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 * @created 2007
 */
/**
 * Executes a system command after checking that the executable exists and
 * escaping all the parameters to ensure that injection is impossible.
 * Implementations must change to the specified working
 * directory before invoking the command.
 *
 * @param executable
 * the command to execute
 * @param params
 * the parameters of the command being executed
 * @param workdir
 * the working directory
 * @param codec
 * the codec to use to encode for the particular OS in use
 * @param logParams
 * use false if any parameters contains sensitive or confidential information
* @return the output of the command being run
* @throws ExecutorException the service exception
*/

Found in path(s):
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```java
/**
 * This method adds a provider to the SecurityManager either by some generic name or by the class name.
 * </p><p>
 * The following generic JCE provider names are built-in:
 * <ul>
 * <li>SunJCE</li>
 * <li>IBMJCE [for WebSphere]</li>
 * <li>GnuCrypto [for use with GNU Compiler for Java, i.e., gcj]</li>
 * <li>BC [i.e., Bouncy Castle]</li>
 * <li>IAIK</li>
 * <li>CryptixCrypto (or Cryptix)</li>
 * <li>ABA</li>
 * </ul>
 * Note that neither Cryptix or ABA are actively maintained so it is recommended that you do not start using them for ESAPI
 * unless your application already has a dependency on them. Furthermore, the Cryptix JCE jars likely will not work as the Cryptix code signing certificate has expired as of August 28, 2009. (This likely is true for ABA, but I can't even find a copy to download!). Lastly, the IAIK provider is no longer offered as free, open source. It is not a commercial product. See [link http://jce.iaik.tugraz.at/] for details. While some older versions were offered free, it is not clear whether the accompanying license still allows you to use it, and if it does, whether or not the code signing certificate used to sign their JCE jar(s) has expired are not. Therefore, if you are looking for a FOSS alternative to SunJCE, Bouncy Castle ([link http://www.bouncycastle.org/] is probably your best bet. The BC provider does support many of the "combined cipher modes" that provide both confidentiality and authenticity. (See the [code ESAPI.properties] property [code Encryptor.cipher_modes.combined_modes] for details.)
 * </p><p>
 * For those working in the U.S. federal government, it should be noted that <i>none</i> of the providers listed here are considered validated by NIST's Cryptographic Module Validation Program and are therefore not considered FIPS 140-2 compliant. There are a few approved JCE compatible Java libraries that are on NIST's CMVP list, but this list changes constantly so they are not listed here. For further details on NIST's CMVP, see [link http://csrc.nist.gov/groups/STM/cmvp/index.html].
 * </p><p>
 * Finally, if you wish to use some other JCE provider not recognized above,
```
* you must specify the provider's fully-qualified class name (which in
* turn must have a public, no argument constructor).
* </p><p>* The application must be given the {@code SecurityPermission} with a
* value of { @code insertProvider.&lt;provider_name&gt; } (where
* &lt;provider_name&gt; is the name of the algorithm provider if
* a security manager is installed.
* </p>

* @param algProvider Name of the JCE algorithm provider. If the name
* contains a ".", this is interpreted as the name
* of a { @code java.security.Provider} class name.
* @param pos The preference position (starting at 1) that the
caller would like for this provider. If you wish
* for it to be installed as the <i>last</i> provider
* (as of the time of this call), set { @code pos} to -1.
* @return The actual preference position at which the provider was added,
* or -1 if the provider was not added because it is already
* installed.
* @exception NoSuchProviderException - thrown if the provider class
* could not be loaded or added to the { @code SecurityManager} or
* any other reason for failure.
*/

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* @author Jeff Williams &lt;a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
* Return a { @code List} of strings of combined cipher modes that support
* <b>both</b> confidentiality and authenticity. These would be preferred
* cipher modes to use if your JCE provider supports them. If such a
cipher mode is used, no explicit <i>separate</i> MAC is calculated as part of
the { @code CipherText } object upon encryption nor is any attempt made
* to verify the same on decryption.
* </p><p>
The list is taken from the comma-separated list of cipher modes specified
* by the ESAPI property
* { @code Encryptor.cipher_modes(combined_modes).}
*
* @return The parsed list of comma-separated cipher modes if the property
* was specified in { @code ESAPI.properties}; otherwise the empty list is
* returned.
* */

Found in path(s):
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* @author Arshan Dabirsiaghi <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2008
* */

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1.87 hd-parm 9.43
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*
//@(#)bitstring.h 8.1 (Berkeley) 7/19/93

*/
diff -up cronie-1.4.4/src/crontab.c.676081 cronie-1.4.4/src/crontab.c
--- cronie-1.4.4/src/crontab.c.676081 2011-02-17 14:56:59.210863896 +0100
+++ cronie-1.4.4/src/crontab.c2011-02-17 14:59:41.412874958 +0100
@@ -713,7 +713,7 @@ static int replace_cmd(void) {
 goto done;
 }

-file_owner = (getgid() == getegid())? ROOT_UID : pw->pw_uid;
+file_owner = (getgid() == geteuid() && getgid() == getegid()) ? ROOT_UID : pw->pw_uid;

 ifndef HAS_FCHOWN
 if (fchown(fileno(tmp), file_owner, -1) < OK) {

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1.91 openssl 1.0.1e-48.el6

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will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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**
** @(#) $Id: sqlite3ext.h,v 1.25 2008/10/12 00:27:54 shane Exp $

1.107 tcp-dump 4.0.0
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1.111 zlib 1.2.3

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

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1.112 gir1.2-gdkpixbuf-2.0 2.24.1-6.el6_7

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1.113 tdb unknown

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   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete
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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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September 18, 2010

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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#define __LICENSE_H

#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

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

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(in case you are wondering where CyberLogin is, EON changed its login
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for his AFC kernel thread

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the module unloading problems, ...

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.
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1.119 bc 1.06
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Western Washington University
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*************************************************************************/

#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>/* Prototypes needed for external utility routines. */

#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory

_PROTOTYPE(void rt_warn, (char *mesg,...));
_PROTOTYPE(void rt_error, (char *mesg,...));
_PROTOTYPE(void out_of_memory, (void));

/* Storage used for special numbers. */
bc_num _zero_;  
bc_num _one_;  
bc_num _two_;  

static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */
bc_num
bc_new_num (length, scale)
    int length, scale;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;
    temp->n_refs = 1;
    temp->n_ptr = (char *) malloc (length+scale);
    if (temp->n_ptr == NULL) bc_out_of_memory();
    temp->n_value = temp->n_ptr;
    memset (temp->n_ptr, 0, length+scale);
    return temp;
}

/* "Frees" a bc_num NUM. Actually decreases reference count and only
   frees the storage if reference count is zero. */

void
bc_free_num (num)
    bc_num *num;
{
    if (*num == NULL) return;
    (*num)->n_refs--;
    if ((*num)->n_refs == 0) {
        if (((*num)->n_ptr)
            free (((*num)->n_ptr);
        (*num)->n_next = _bc_Free_list;
        _bc_Free_list = *num;
    }
    *num = NULL;
}

/* Intitialize the number package! */

void
bc_init_numbers ()
{  
  _zero_ = bc_new_num (1,0);  
  _one_  = bc_new_num (1,0);  
  _one_->_n_value[0] = 1;  
  _two_  = bc_new_num (1,0);  
  _two_->_n_value[0] = 2; 
}

/* Make a copy of a number! Just increments the reference count! */

bc_num
bc_copy_num (num)
  bc_num num;
{
  num->n_refs++;
  return num;
}

/* Initialize a number NUM by making it a copy of zero. */

void
bc_init_num (num)
  bc_num *num;
{
  *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM.
   _bc_rm_leading_zeros just moves the data "value" pointer to the
   correct place and adjusts the length. */

static void
_bc_rm_leading_zeros (num)
  bc_num num;
{
  /* We can move n_value to point to the first non zero digit! */
  while (*num->n_value == 0 && num->n_len > 1) {
    num->n_value++;
    num->n_len--;
  }
}

/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less
   than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just
   compare the magnitudes. */
static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
    int use_sign;
    int ignore_last;
{
    char *n1ptr, *n2ptr;
    int count;

    /* First, compare signs. */
    if (use_sign && n1->n_sign != n2->n_sign)
    {
        if (n1->n_sign == PLUS)
            return (1); /* Positive N1 > Negative N2 */
        else
            return (-1); /* Negative N1 < Positive N1 */
    }

    /* Now compare the magnitude. */
    if (n1->n_len != n2->n_len)
    {
        if (n1->n_len > n2->n_len)
        {
            /* Magnitude of n1 > n2. */
            if (!use_sign || n1->n_sign == PLUS)
                return (1);
            else
                return (-1);
        }
        else
        {
            /* Magnitude of n1 < n2. */
            if (!use_sign || n1->n_sign == PLUS)
                return (-1);
            else
                return (1);
        }
    }

    /* If we get here, they have the same number of integer digits. */
    check the integer part and the equal length part of the fraction. */
    count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
    n1ptr = n1->n_value;
    n2ptr = n2->n_value;

    while ((count > 0) && (*n1ptr == *n2ptr))
n1ptr++;  
n2ptr++;  
count--;  
}
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
    return (0);
if (count != 0)
{
    if (*n1ptr > *n2ptr)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}
/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
{
    if (n1->n_scale > n2->n_scale)
    {
        for (count = n1->n_scale-n2->n_scale; count>0; count--)
            if (*n1ptr++ != 0)
            {
                /* Magnitude of n1 > n2. */
                if (!use_sign || n1->n_sign == PLUS)
                    return (1);
                else
                    return (-1);
            }
    }
    else
    {
        for (count = n2->n_scale-n1->n_scale; count>0; count--)
            if (*n2ptr++ != 0)
            {
                /* Magnitude of n1 < n2. */
                if (!use_sign || n1->n_sign == PLUS)
                    return (-1);
                else
                    return (1);
            }
    }
}
return (-1);
else
    return (1);
}

/* They must be equal! */
return (0);
}

/* This is the "user callable" routine to compare numbers N1 and N2. */

int
bc_compare (n1, n2)
    be_num n1, n2;
{
    return _bc_do_compare (n1, n2, TRUE, FALSE);
}

/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)
    be_num num;
{
    return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)
    be_num num;
{
    int  count;
    char *nptr;

    /* Quick check. */
    if (num == _zero_) return TRUE;

    /* Initialize */
    count = num->n_len + num->n_scale;
    nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;
if (count != 0)
    return FALSE;
else
    return TRUE;
}

/* In some places we need to check if the number NUM is almost zero. 
Specifically, all but the last digit is 0 and the last digit is 1. 
Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;
    int scale;
{
    int count;
    char *nptr;

    /* Error checking */
    if (scale > num->n_scale)
        scale = num->n_scale;

    /* Initialize */
    count = num->n_len + scale;
    nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0 && (count != 1 || *--nptr != 1))
        return FALSE;
    else
        return TRUE;
}

/* Perform addition: N1 is added to N2 and the value is 
returned. The signs of N1 and N2 are ignored. 
SCALE_MIN is to set the minimum scale of the result. */

static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num sum;
    int sum_scale, sum_digits;
char *n1ptr, *n2ptr, *sumptr;
int carry, n1bytes, n2bytes;
int count;

/* Prepare sum. */
sum_scale = MAX (n1->n_scale, n2->n_scale);
sum_digits = MAX (n1->n_len, n2->n_len) + 1;
sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

/* Zero extra digits made by scale_min. */
if (scale_min > sum_scale)
{
    sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
    for (count = scale_min - sum_scale; count > 0; count--)
        *sumptr++ = 0;
}

/* Start with the fraction part. Initialize the pointers. */
 n1bytes = n1->n_scale;
n2bytes = n2->n_scale;
n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

/* Add the fraction part. First copy the longer fraction.*/
if (n1bytes != n2bytes)
{
    if (n1bytes > n2bytes)
        while (n1bytes>n2bytes)
        {
            *sumptr-- = *n1ptr--; n1bytes--;
        }
    else
        while (n2bytes>n1bytes)
        {
            *sumptr-- = *n2ptr--; n2bytes--;
        }
}

/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
{
    *sumptr = *n1ptr++ + *n2ptr++ + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
    else
carry = 0;
    sumptr--;
    n1bytes--;
    n2bytes--;
}

/* Now add carry the longer integer part. */
if (n1bytes == 0)
    { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
    {
        *sumptr = *n1ptr-- + carry;
        if (*sumptr > (BASE-1))
            {
                carry = 1;
                *sumptr -= BASE;
            }
        else
            carry = 0;
        sumptr--;
    }
/* Set final carry. */
if (carry == 1)
    *sumptr += 1;

/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;

/* Perform subtraction: N2 is subtracted from N1 and the value is
 returned. The signs of N1 and N2 are ignored. Also, N1 is
 assumed to be larger than N2. SCALE_MIN is the minimum scale
 of the result. */
static bc_num
   _bc_do_sub (n1, n2, scale_min)
       bc_num n1, n2;
       int scale_min;
   {
       bc_num diff;
       int diff_scale, diff_len;
       int min_scale, min_len;
       char *n1ptr, *n2ptr, *diffptr;
       int borrow, count, val;
/* Allocate temporary storage. */
diff_len = MAX (n1->n_len, n2->n_len);
diff_scale = MAX (n1->n_scale, n2->n_scale);
min_len = MIN (n1->n_len, n2->n_len);
min_scale = MIN (n1->n_scale, n2->n_scale);
diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

/* Zero extra digits made by scale_min. */
if (scale_min > diff_scale)
{
    diffptr = (char *) (diff->n_value + diff_len + diff_scale);
    for (count = scale_min - diff_scale; count > 0; count--)
        *diffptr++ = 0;
}

/* Initialize the subtract. */
n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);

/* Subtract the numbers. */
borrow = 0;

/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
{
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
        *diffptr-- = *n1ptr--;
}
else
{
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
    {
        val = - *n2ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
        else
            borrow = 0;
        *diffptr-- = val;
    }
}

/* Now do the equal length scale and integer parts. */
for (count = 0; count < min_len + min_scale; count++)
{
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
    {
        val += BASE;
        borrow = 1;
    }
    else
        borrow = 0;
    *diffptr-- = val;
}

/* If n1 has more digits then n2, we now do that subtract. */
if (diff_len != min_len)
{
    for (count = diff_len - min_len; count > 0; count--)
    {
        val = *n1ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
        else
            borrow = 0;
        *diffptr-- = val;
    }
}

/* Clean up and return. */
_bc_rm_leading_zeros (diff);
return diff;

/* Here is the full subtract routine that takes care of negative numbers.
N2 is subtracted from N1 and the result placed in RESULT. SCALE_MIN
is the minimum scale for the result. */

void
bc_sub (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num diff = NULL;
    int cmp_res;
int res_scale;

if (n1->n_sign != n2->n_sign)
{
    diff = _bc_do_add (n1, n2, scale_min);
    diff->n_sign = n1->n_sign;
}
else
{
    /* subtraction must be done. */
    /* Compare magnitudes. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
    switch (cmp_res)
    {
    case -1:
        /* n1 is less than n2, subtract n1 from n2. */
        diff = _bc_do_sub (n2, n1, scale_min);
        diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
        break;
    case 0:
        /* They are equal! return zero! */
        res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
        diff = bc_new_num (1, res_scale);
        memset (diff->n_value, 0, res_scale+1);
        break;
    case 1:
        /* n2 is less than n1, subtract n2 from n1. */
        diff = _bc_do_sub (n1, n2, scale_min);
        diff->n_sign = n1->n_sign;
        break;
    }
}
/* Clean up and return. */
bc_free_num (result);
*result = diff;
}

/* Here is the full add routine that takes care of negative numbers.
 N1 is added to N2 and the result placed into RESULT. SCALE_MIN
 is the minimum scale for the result. */

void
bc_add (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{

bc_num sum = NULL;
int cmp_res;
int res_scale;

if (n1->n_sign == n2->n_sign)
{
    sum = _bc_do_add (n1, n2, scale_min);  
    sum->n_sign = n1->n_sign;
    
} else
{
    /* subtraction must be done. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);  /* Compare magnitudes. */
    switch (cmp_res)
    {
        case -1:
            /* n1 is less than n2, subtract n1 from n2. */
            sum = _bc_do_sub (n2, n1, scale_min);
            sum->n_sign = n2->n_sign;
            break;
        case 0:
            /* They are equal! return zero with the correct scale! */
            res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
            sum = bc_new_num (1, res_scale);
            memset (sum->n_value, 0, res_scale+1);
            break;
        case 1:
            /* n2 is less than n1, subtract n2 from n1. */
            sum = _bc_do_sub (n1, n2, scale_min);
            sum->n_sign = n1->n_sign;
            
    }
    
    /* Clean up and return. */
    bc_free_num (result);
    *result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4
/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
  int length, scale;
  char *value;
{
  bc_num temp;

  if (_bc_Free_list != NULL) {
    temp = _bc_Free_list;
    _bc_Free_list = temp->n_next;
  } else {
    temp = (bc_num) malloc (sizeof(bc_struct));
    if (temp == NULL) bc_out_of_memory ();
  }
  temp->n_sign = PLUS;
  temp->n_len = length;
  temp->n_scale = scale;
  temp->n_refs = 1;
  temp->n_ptr = NULL;
  temp->n_value = value;
  return temp;
}

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
  int full_scale)
{
  char *n1ptr, *n2ptr, *pvptr;
  char *n1end, *n2end;/* To the end of n1 and n2. */
  int indx, sum, prodlen;

  prodlen = n1len+n2len+1;

  *prod = bc_new_num (prodlen, 0);

  n1end = (char *) (n1->n_value + n1len - 1);
  n2end = (char *) (n2->n_value + n2len - 1);
  pvptr = (char *) ((*prod)->n_value + prodlen - 1);
  sum = 0;

  /* Here is the loop... */
  for (indx = 0; indx < prodlen-1; indx++)
  {
    n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
    n2ptr = (char *) (n2end - MIN(indx, n2len-1));
    while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
    }
sum += *n1ptr-- * *n2ptr++;  
*pvptr-- = sum % BASE;  
sum = sum / BASE;  
}  
*pvptr = sum;  
}  

/* A special adder/subtractor for the recursive divide and conquer multiply algorithm. Note: if sub is called, accum must be larger that what is being subtracted. Also, accum and val must have n_scale = 0. (e.g. they must look like integers. /* */ static void _bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)  
{  
signed char *accp, *valp;  
int count, carry;  

count = val->n_len;  
if (val->n_value[0] == 0)  
    count--;  
assert (accum->n_len+accum->n_scale >= shift+count);  

/* Set up pointers and others */  
accp = (signed char *)(accum->n_value + accum->n_len + accum->n_scale - shift - 1);  
valp = (signed char *)(val->n_value + val->n_len - 1);  
carry = 0;  

if (sub) {  
    /* Subtraction, carry is really borrow. */  
    while (count--) {  
        *accp -= *valp-- + carry;  
        if (*accp < 0) {  
            carry = 1;  
            *accp-- += BASE;  
        } else {  
            carry = 0;  
            accp--;  
        }  
    }  
    while (carry) {  
        *accp -= carry;  
        if (*accp < 0)  
            *accp-- += BASE;  
        else  
            carry = 0;  
    }  
}  

else {
  /* Addition */
  while (count--) {
    *accp += *valp-- + carry;
    if (*accp > (BASE-1)) {
      carry = 1;
      *accp-- -= BASE;
    } else {
      carry = 0;
    }
    accp--;
  }
  while (carry) {
    *accp += carry;
    if (*accp > (BASE-1))
      *accp-- -= BASE;
    else 
      carry = 0;
  }
}

/* Recursive divide and conquer multiply algorithm. */
/* Based on */
/* Let u = u0 + u1*(b^n) */
/* Let v = v0 + v1*(b^n) */
/* Then uv = (B^2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0 */
/* B is the base of storage, number of digits in u1,u0 close to equal. */
*/
static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
              int full_scale)
{
  bc_num u0, u1, v0, v1;
  int u0len, v0len;
  bc_num m1, m2, m3, d1, d2;
  int n, prodlen, m1zero;
  int d1len, d2len;

  /* Base case? */
  if ((ulen+vlen) < mul_base_digits ||
      ulen < MUL_SMALL_DIGITS ||
      vlen < MUL_SMALL_DIGITS) {
    _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
    return;
  }
}
/* Calculate n -- the u and v split point in digits. */
    n = (MAX(ulen, vlen)+1) / 2;

/* Split u and v. */
    if (ulen < n) {
        u1 = bc_copy_num (_zero_);
        u0 = new_sub_num (ulen,0, u->n_value);
    } else {
        u1 = new_sub_num (ulen-n, 0, u->n_value);
        u0 = new_sub_num (n, 0, u->n_value+ulen-n);
    }
    if (vlen < n) {
        v1 = bc_copy_num (_zero_);
        v0 = new_sub_num (vlen,0, v->n_value);
    } else {
        v1 = new_sub_num (vlen-n, 0, v->n_value);
        v0 = new_sub_num (n, 0, v->n_value+vlen-n);
    }
    _bc_rm_leading_zeros (u1);
    _bc_rm_leading_zeros (u0);
    u0len = u0->n_len;
    _bc_rm_leading_zeros (v1);
    _bc_rm_leading_zeros (v0);
    v0len = v0->n_len;

    m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */
    bc_init_num(&d1);
    bc_init_num(&d2);
    bc_sub (u1, u0, &d1, 0);
    d1len = d1->n_len;
    bc_sub (v0, v1, &d2, 0);
    d2len = d2->n_len;

/* Do recursive multiplies and shifted adds. */
    if (m1zero)
        m1 = bc_copy_num (_zero_);
    else
        _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);
    if (bc_is_zero(d1) || bc_is_zero(d2))
        m2 = bc_copy_num (_zero_);
    else
        _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);
if (bc_is_zero(u0) || bc_is_zero(v0))
    m3 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
    _bc_shift_addsub (*prod, m1, 2*n, 0);
    _bc_shift_addsub (*prod, m1, n, 0);
}
    _bc_shift_addsub (*prod, m3, n, 0);
    _bc_shift_addsub (*prod, m3, 0, 0);
    _bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

    /* Now clean up! */
    bc_free_num (&u1);
    bc_free_num (&u0);
    bc_free_num (&v1);
    bc_free_num (&m1);
    bc_free_num (&v0);
    bc_free_num (&m2);
    bc_free_num (&m3);
    bc_free_num (&d1);
    bc_free_num (&d2);
}

/* The multiply routine.  N2 times N1 is put int PROD with the scale of
the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)).
*/

void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
    bc_num pval;
    int len1, len2;
    int full_scale, prod_scale;

    /* Initialize things. */
    len1 = n1->n_len + n1->n_scale;
    len2 = n2->n_len + n2->n_scale;
    full_scale = n1->n_scale + n2->n_scale;
    prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));

/* Do the multiply */
_bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

/* Assign to prod and clean up the number. */
pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
pval->n_value = pval->n_ptr;
pval->n_len = len2 + len1 + 1 - full_scale;
pval->n_scale = prod_scale;
_bc_rm_leading_zeros (pval);
if (bc_is_zero (pval))
  pval->n_sign = PLUS;
b_c_free_num (prod);
*prod = pval;
}

/* Some utility routines for the divide: First a one digit multiply.
NUM (with SIZE digits) is multiplied by DIGIT and the result is
placed into RESULT. It is written so that NUM and RESULT can be
the same pointers. */

static void
_one_mult (num, size, digit, result)
  unsigned char *num;
  int size, digit;
  unsigned char *result;
{
  int carry, value;
  unsigned char *nptr, *rptr;

  if (digit == 0)
    memset (result, 0, size);
  else
    
    if (digit == 1)
      memcpy (result, num, size);
    else
      {
        /* Initialize */
        nptr = (unsigned char *) (num+size-1);
        rptr = (unsigned char *) (result+size-1);
        carry = 0;

        while (size-- > 0)
          
          { value = *nptr-- * digit + carry;
            *rptr-- = value % BASE;
            carry = value / BASE;
          }
if (carry != 0) *rptr = carry;
}
}
}

/* The full division routine. This computes N1 / N2. It returns 0 if the division is ok and the result is in QUOT. The number of digits after the decimal point is SCALE. It returns -1 if division by zero is tried. The algorithm is found in Knuth Vol 2. p237. */

int bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
    bc_num qval;
    unsigned char *num1, *num2;
    unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
    int scale1, val;
    unsigned int len1, len2, scale2, qdigits, extra, count;
    unsigned int qdig, qguess, borrow, carry;
    unsigned char *mval;
    char zero;
    unsigned int norm;

    /* Test for divide by zero. */
    if (bc_is_zero (n2)) return -1;

    /* Test for divide by 1. If it is we must truncate. */
    if (n2->n_scale == 0)
    {
        if (n2->n_len == 1 && *n2->n_value == 1)
        {
            qval = bc_new_num (n1->n_len, scale);
            qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
            memset (&qval->n_value[n1->n_len],0,scale);
            memcpy (qval->n_value, n1->n_value,
                    n1->n_len + MIN(n1->n_scale,scale));
            bc_free_num (quot);
            *quot = qval;
        }
    }

    /* Set up the divide. Move the decimal point on n1 by n2's scale.
       Remember, zeros on the end of num2 are wasted effort for dividing. */
    scale2 = n2->n_scale;


n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
    extra = scale - scale1;
else
    extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
um2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memset (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
    {
        n2ptr++;
        len2--;
    }

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
    {
        qdigits = scale+1;
        zero = TRUE;
    }
else
    {
        zero = FALSE;
        if (len2>len1)
            qdigits = scale+1; /* One for the zero integer part. */
        else
            qdigits = len1-len2+scale+1;
    }

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale,scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory();
/* Now for the full divide algorithm. */
if (!zero)
{
    /* Normalize */
    norm = 10 / ((int)*n2ptr + 1);
    if (norm != 1)
    {
        _one_mult (num1, len1+scale1+extra1, norm, num1);
        _one_mult (n2ptr, len2, norm, n2ptr);
    }

    /* Initialize divide loop. */
    qdig = 0;
    if (len2 > len1)
        qptr = (unsigned char *) qval->n_value+len2-len1;
    else
        qptr = (unsigned char *) qval->n_value;

    /* Loop */
    while (qdig <= len1+scale-len2)
    {
        /* Calculate the quotient digit guess. */
        if (*n2ptr == num1[qdig])
            qguess = 9;
        else
            qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

        /* Test qguess. */
        if (n2ptr[1]*qguess >
            (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
            + num1[qdig+2])
            { qguess--; }

        /* And again. */
        if (n2ptr[1]*qguess >
            (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
            + num1[qdig+2])
            qguess--;
    }

    /* Multiply and subtract. */
    borrow = 0;
    if (qguess != 0)
    {
        *mval = 0;
        _one_mult (n2ptr, len2, qguess, mval+1);
        ptr1 = (unsigned char *) num1+qdig+len2;
    }
ptr2 = (unsigned char *) mval+len2;
for (count = 0; count < len2+1; count++)
{
    val = (int) *ptr1 - (int) *ptr2-- - borrow;
    if (val < 0)
    {
        val += 10;
        borrow = 1;
    }
    else
        borrow = 0;
    *ptr1-- = val;
}

/* Test for negative result. */
if (borrow == 1)
{
    qguess--;
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) n2ptr+len2-1;
    carry = 0;
    for (count = 0; count < len2; count++)
    {
        val = (int) *ptr1 + (int) *ptr2-- + carry;
        if (val > 9)
        {
            val -= 10;
            carry = 1;
        }
        else
            carry = 0;
        *ptr1-- = val;
    }
    if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
}

/* We now know the quotient digit. */
*qptr++ =  qguess;
qdig++;
}

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign = PLUS;
_bc_rm_leading_zeros (qval);
broadcast (quot);
/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);

return 0; /* Everything is OK. */
}

/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and
NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT
is NULL then that store will be omitted. */

int
bc_divmod (num1, num2, quot, rem, scale)
    bc_num num1, num2, *quot, *rem;
    int scale;
{
    bc_num quotient = NULL;
    bc_num temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero (num2)) return -1;

    /* Calculate final scale. */
    rscale = MAX (num1->n_scale, num2->n_scale+scale);
    bc_init_num(&temp);

    /* Calculate it. */
    bc_divide (num1, num2, &temp, scale);
    if (quot)
        quotient = bc_copy_num (temp);
    bc_multiply (temp, num2, &temp, rscale);
    bc_sub (num1, temp, rem, rscale);
    bc_free_num (&temp);

    if (quot)
    {
        bc_free_num (quot);
        *quot = quotient;
    }

    return 0; /* Everything is OK. */
}
/* Modulo for numbers. This computes NUM1 % NUM2 and puts the result in RESULT. */

int
bc_modulo (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD. The result is placed in RESULT. If a EXPO is not an integer, only the integer part is used. */

int
bc_raisemod (base, expo, mod, result, scale)
    bc_num base, expo, mod, *result;
    int scale;
{
    bc_num power, exponent, parity, temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero(mod)) return -1;
    if (bc_is_neg(expo)) return -1;

    /* Set initial values. */
    power = bc_copy_num (base);
    exponent = bc_copy_num (expo);
    temp = bc_copy_num (_one_);
    bc_init_num(&parity);

    /* Check the base for scale digits. */
    if (base->n_scale != 0)
        bc_rt_warn ("non-zero scale in base");

    /* Check the exponent for scale digits. */
    if (exponent->n_scale != 0)
    {
        bc_rt_warn ("non-zero scale in exponent");
        bc_divide (exponent, _one_, &exponent, 0); /*truncate */
    }

    /* Check the modulus for scale digits. */
    if (mod->n_scale != 0)
bc_rt_warn("non-zero scale in modulus");

/* Do the calculation. */
rscale = MAX(scale, base->n_scale);
while ( !bc_is_zero(exponent) )
{
    (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
    if ( !bc_is_zero(parity) )
    {
        bc_multiply (temp, power, &temp, rscale);
        (void) bc_modulo (temp, mod, &temp, scale);
    }
    bc_multiply (power, power, &power, rscale);
    (void) bc_modulo (power, mod, &power, scale);
}

/* Assign the value. */
bc_free_num (&power);
bfree_num (&exponent);
b_free_num (result);
*result = temp;
return 0; /* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT. Maximum exponent is LONG_MAX. If a NUM2 is not an integer, only the integer part is used. */

void
bc_raise (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    bc_num temp, power;
    long exponent;
    int rscale;
    int pwrscale;
    int calcscale;
    char neg;

    /* Check the exponent for scale digits and convert to a long. */
    if (num2->n_scale != 0)
        bc_rt_warn("non-zero scale in exponent");
    exponent = bc_num2long (num2);
    if (exponent == 0 || (num2->n_len > 1 || num2->n_value[0] != 0))
        bc_rt_error("exponent too large in raise");
/* Special case if exponent is a zero. */
if (exponent == 0)
{
    bc_free_num (result);
    *result = bc_copy_num (_one_);
    return;
}

/* Other initializations. */
if (exponent < 0)
{
    neg = TRUE;
    exponent = -exponent;
    rscale = scale;
}
else
{
    neg = FALSE;
    rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
}

/* Set initial value of temp. */
power = bc_copy_num (num1);
pwrscale = num1->n_scale;
while ((exponent & 1) == 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    exponent = exponent >> 1;
}
temp = bc_copy_num (power);
calcscale = pwrscale;
exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    if ((exponent & 1) == 1) {
        calcscale = pwrscale + calcscale;
        bc_multiply (temp, power, &temp, calcscale);
    }
    exponent = exponent >> 1;
}

/* Assign the value. */
if (neg)
{
    bc_divide (_one_, temp, result, rscale);
    bc_free_num (&temp);
}
else
{
    bc_free_num (result);
    *result = temp;
    if ((*result)->n_scale > rscale)
(*result)->n_scale = rscale;
}
bc_free_num (&power);
}

/* Take the square root NUM and return it in NUM with SCALE digits
 after the decimal place. */

int
bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
    int rscale, cmp_res, done;
    int cscale;
    bc_num guess, guess1, point5, diff;

    /* Initial checks. */
    cmp_res = bc_compare (*num, _zero_);
    if (cmp_res < 0)
        return 0; /* error */
    else
    {
        if (cmp_res == 0)
        {
            bc_free_num (num);
            *num = bc_copy_num (_zero_);
            return 1;
        }
    }
    cmp_res = bc_compare (*num, _one_);
    if (cmp_res == 0)
    {
        bc_free_num (num);
        *num = bc_copy_num (_one_);
        return 1;
    }
    /* Initialize the variables. */
rscale = MAX (scale, (*num)->n_scale);
bc_init_num(&guess);
bc_init_num(&guess1);
bc_init_num(&diff);
point5 = bc_new_num (1,1);
point5->n_value[1] = 5;

/* Calculate the initial guess. */
if (cmp_res < 0)
{
  /* The number is between 0 and 1. Guess should start at 1. */
  guess = bc_copy_num (_one_);
cscale = (*num)->n_scale;
}
else
{
  /* The number is greater than 1. Guess should start at 10^(exp/2). */
  bc_int2num (&guess,10);

  bc_int2num (&guess1,(*num)->n_len);
  bc_multiply (guess1, point5, &guess1, 0);
  guess1->n_scale = 0;
  bc_raise (guess, guess1, &guess, 0);
  bc_free_num (&guess1);
cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
  bc_free_num (&guess1);
  guess1 = bc_copy_num (guess);
  bc_divide (*num, guess, &guess, cscale);
  bc_add (guess, guess1, &guess, 0);
  bc_multiply (guess, point5, &guess, cscale);
  bc_sub (guess, guess1, &diff, cscale+1);
  if (bc_is_near_zero (diff, cscale))
  {
    if (cscale < rscale+1)
      cscale = MIN (cscale*3, rscale+1);
    else
      done = TRUE;
  }
}

/* Assign the number and clean up. */
bc_free_num (num);
broadcast (guess, _one_, num, rscale);
broadcast (guess, &guess);
broadcast (guess, &guess1);
broadcast (point5, &point5);
broadcast (diff, &diff);
return 1;
}

/* The following routines provide output for bcd numbers package */
/* using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
  long digit;
  struct stk_rec *next;
} stk_rec;

/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";

/* A special output routine for "multi-character digits." Exactly
SIZE characters must be output for the value VAL. If SPACE is
non-zero, we must output one space before the number. OUT_CHAR
is the actual routine for writing the characters. */

void
bc_out_long (val, size, space, out_char)
  long val;
  int size, space;
#ifdef __STDC__
  void (*out_char)(int);
#else
  void (*out_char)();
#endif
{
  char digits[40];
  int len, ix;

  if (space) (*out_char) (' ');
  sprintf (digits, "%ld", val);
  len = strlen (digits);
  while (size > len)
    (*out_char) ('0');
  size--;
for (ix=0; ix < len; ix++)
    (*out_char) (digits[ix]);
}

/* Output of a bcd number. NUM is written in base O_BASE using OUT_CHAR
   as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
    #ifdef __STDC__
    void (*out_char)(int);
    #else
    void (*out_char)();
    #endif
    int leading_zero;
{
    char *nptr;
    int  index, fdigit, pre_space;
    stk_rec *digits, *temp;
    bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

    /* The negative sign if needed. */
    if (num->n_sign == MINUS) (*out_char) ('-');

    /* Output the number. */
    if (bc_is_zero (num))
        (*out_char) ('0');
    else
        if (o_base == 10)
            /* The number is in base 10, do it the fast way. */
            nptr = num->n_value;
            if (num->n_len > 1 || *nptr != 0)
                for (index=num->n_len; index>0; index--)
                    (*out_char) (BCD_CHAR(*nptr++));
            else
                nptr++;

            if (leading_zero && bc_is_zero (num))
                (*out_char) ('0');

        /* Now the fraction. */
        if (num->n_scale > 0)
            (*out_char) ('.');
for (index=0; index<num->n_scale; index++)
    (*out_char) (BCD_CHAR(*nptr++));
}
}
else
{
/* special case ... */
if (leading_zero && bc_is_zero (num))
    (*out_char) ('0');

/* The number is some other base. */
digits = NULL;
bc_init_num (&int_part);
bc_divide (num, _one_, &int_part, 0);
broadcast (num, &frac_part);
broadcast (cur_dig);
broadcast (base);
broadcast (num, int_part, &frac_part, 0);
/* Make the INT_PART and FRAC_PART positive. */
int_part->n_sign = PLUS;
frac_part->n_sign = PLUS;
broadcast (base, o_base);
broadcast (max_o_digit);
broadcast (max_o_digit, o_base-1);

/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
{
    bc_modulo (int_part, base, &cur_dig, 0);
temp = (stk_rec *) malloc (sizeof(stk_rec));
    if (temp == NULL) bc_out_of_memory();
temp->digit = bc_num2long (cur_dig);
temp->next = digits;
digits = temp;
broadcast (int_part, base, &int_part, 0);
}

/* Print the digits on the stack. */
if (digits != NULL)
{
/* Output the digits. */
while (digits != NULL)
{
    temp = digits;
    digits = digits->next;
    if (o_base <= 16)
        (*out_char) (ref_str[ (int) temp->digit]);
else
    bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
free (temp);
}
}

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
{
    (*out_char) ('.);
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
        bc_multiply (frac_part, base, &frac_part, num->n_scale);
        fdigit = bc_num2long (frac_part);
        bc_int2num (&int_part, fdigit);
        bc_sub (frac_part, int_part, &frac_part, 0);
        if (o_base <= 16)
            (*out_char) (ref_str[fdigit]);
        else {
            bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
            pre_space = 1;
            bc_multiply (t_num, base, &t_num, 0);
        }
    
    bc_free_num (&t_num);
}

/* Clean up. */
bc_free_num (&int_part);
broadcast &frac_part);
broadcast &base);
broadcast &cur_digit);
broadcast &max_o_digit);
}

/* Convert a number NUM to a long. The function returns only the integer
part of the number. For numbers that are too large to represent as
a long, this function returns a zero. This can be detected by checking
the NUM for zero after having a zero returned. */

long
bc_num2long (num)
    bc_num num;
{
long val;
char *nptr;
int index;
/* Extract the int value, ignore the fraction. */
val = 0;
nptr = num->n_value;
for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
    val = val*BASE + *nptr++;

/* Check for overflow. If overflow, return zero. */
if (index>0) val = 0;
if (val < 0) val = 0;

/* Return the value. */
if (num->n_sign == PLUS)
    return (val);
else
    return (-val);
}

/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num (num, val)
    bc_num *num;
    int val;
{
    char buffer[30];
    char *bptr, *vptr;
    int  ix = 1;
    char neg = 0;

    /* Sign. */
    if (val < 0)
    {
        neg = 1;
        val = -val;
    }

    /* Get things going. */
    bptr = buffer;
    *bptr++ = val % BASE;
    val = val / BASE;

    /* Extract remaining digits. */
    while (val != 0)
    {
        *bptr++ = val % BASE;
        val = val / BASE;
    }
ix++; /* Count the digits. */

/* Make the number. */
bc_free_num (num);
*num = bc_new_num (ix, 0);
if (neg) (*num)->n_sign = MINUS;

/* Assign the digits. */
vptr = (*num)->n_value;
while (ix-- > 0)
  *vptr++ = *--bptr;
}

/* Convert a numbers to a string. Base 10 only. */

char *
num2str (num)
  bc_num num;
{
  char *str, *sptr;
  char *nptr;
  int index, signch;

  /* Allocate the string memory. */
  signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
  if (num->n_scale > 0)
    str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
  else
    str = (char *) malloc (num->n_len + 1 + signch);
  if (str == NULL) bc_out_of_memory();

  /* The negative sign if needed. */
  sptr = str;
  if (signch) *sptr++ = '-';

  /* Load the whole number. */
  nptr = num->n_value;
  for (index=num->n_len; index>0; index--)
    *sptr++ = BCD_CHAR(*nptr++);

  /* Now the fraction. */
  if (num->n_scale > 0)
    {
      *sptr++ = '.';
      for (index=0; index<num->n_scale; index++)
        *sptr++ = BCD_CHAR(*nptr++);
    }
/* Terminate the string and return it! */
*sptr = '\0';    
return (str);
}
/* Convert strings to bc numbers. Base 10 only. */

void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
    int digits, strscale;
    char *ptr, *nptr;
    char zero_int;

    /* Prepare num. */
    bc_free_num (num);

    /* Check for valid number and count digits. */
    ptr = str;
    digits = 0;
    strscale = 0;
    zero_int = FALSE;
    if ( (*ptr == '+') || (*ptr == '-'))  ptr++;  /* Sign */
    while (*ptr == '0') ptr++;	/* Skip leading zeros. */
    while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
    if (*ptr == '.') ptr++;	/* decimal point */
    while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
    if (((*ptr != '\0') || (digits+strscale == 0))
        
    {
        *num = bc_copy_num (_zero_);
        return;
    }

    /* Adjust numbers and allocate storage and initialize fields. */
    strscale = MIN(strscale, scale);
    if (digits == 0)
    {
        zero_int = TRUE;
        digits = 1;
    }
    *num = bc_new_num (digits, strscale);

    /* Build the whole number. */
    ptr = str;
    if (*ptr == '-')
{  
    (*num)->n_sign = MINUS;
    ptr++;
}
else
{
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
{
    *nptr++ = 0;
    digits = 0;
}
for (;digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr++);

/* Build the fractional part. */
if (strscale > 0)
{
    ptr++; /* skip the decimal point! */
    for (;strscale > 0; strscale--)
        *nptr++ = CH_VAL(*ptr++);
}

/* pn prints the number NUM in base 10. */
static void
out_char (int c)
{
    putchar(c);
}

void
pn (num)
    bc_num num;
{
    bc_out_num (num, 10, out_char, 0);
    out_char ('n');
}

/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
    char *name;
    unsigned char *num;
    int len;
{
    int i;
    printf ("%s=", name);
    for (i=0; i<len; i++) printf ("%c", BCD_CHAR(num[i]));
    printf ("\n");
}

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performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent
of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and
small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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MNGPLG
A simple browser plug-in for the MNG image/animation file format.

By Jason Summers <jason1@pobox.com>
Web site: <http://pobox.com/~jason1/mngplg/>

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1.124 xerces-j 2.5.0

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**1.129 busybox 1.10.2**

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Julian Seward, Cambridge, UK.
jseward@bzip.org
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1.132 sysv-init 2.88

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.134 aws-java-sdk-core 1.11.61

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/**
 * Interface for providing AWS credentials. Implementations are free to use any
 * strategy for providing AWS credentials, such as simply providing static
 * credentials that don't change, or more complicated implementations, such as
 * integrating with existing key management systems.
 */

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  jar/com/amazonaws/annotation/package-info.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
  jar/com/amazonaws/annotation/Beta.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
  jar/com/amazonaws/annotation/SdkInternalApi.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
  jar/com/amazonaws/annotation/SdkProtectedApi.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
  jar/com/amazonaws/annotation/SdkTestInternalApi.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
  jar/com/amazonaws/internal/SdkSSLContext.java
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  jar/com/amazonaws/handlers/AsyncHandler.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/http/ExecutionContext.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/auth/AWSRefreshableSessionCredentials.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/regions/AwsRegionProviderChain.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/protocol/json/JsonClientMetadata.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/profile/path/AwsDirectoryBasePathProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/profile/path/AwsClientMetadata.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/profile/path/cred/CredentialsEnvVarOverrideLocationProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/profile/path/AwsProfileFileLocationProviderChain.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/client/builder/ExecutorFactory.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/protocol/json/JsonContentTypeResolver.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/client/builder/ExecutorFactory.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/protocol/json/JsonErrorMetadata.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/client/builder/ExecutorFactory.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/client/builder/ExecutorFactory.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/regions/AwsRegionProviderChain.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/regions/AwsRegionOverrideRegionProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/regions/AwsRegionOverrideRegionProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/AmazonWebServiceResult.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/http/timers/client/SdkInterruptedException.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/auth/profile/internal/BasicProfile.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/apache/client/impl/ConnectionManagerAwareHttpClient.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/DateTimeJsonSerializer.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/timers/package-info.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/apache/utils/ApacheUtils.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/apache/client/impl/ApacheConnectionManagerFactory.java

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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/config/SignerConfig.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/config/JsonIndex.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/ImmutableMapParameter.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/config/SignerConfigJsonHelper.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/Base16Codec.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/HttpClientWrappingInputStream.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/ListWithAutoConstructFlag.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/regions/Region.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/Throwables.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/AWS4Signer.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/RegionAwareSigner.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/Base32.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/EncodingSchemeEnum.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/SdkBufferedInputStream.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/regions/RegionMetadataParser.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/jmx/MBeans.java
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jar/com/amazonaws/internal/http/IonErrorCodeParser.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/internal/http/CompositeErrorCodeParser.java

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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/transform/VoidStaxUnmarshaller.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/waiters/AcceptorPathMatcher.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/waiters/WaiterState.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
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jar/com/amazonaws/AmazonWebServiceClient.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/SignerAsRequestSigner.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/ImmutableRequest.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/protocol/json/SdkStructuredCborFactory.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/protocol/json/SdkStructuredPlainJsonFactory.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/protocol/json/StructuredJsonGenerator.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/transform/LegacyErrorUnmarshaller.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/transform/VoidUnmarshaller.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/HttpMethodName.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/AWSCredentials.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/XmlUtils.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/SignatureVersion.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/transform/Unmarshaller.java

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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/transform/VoidUnmarshallers.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/HttpMethodName.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/AWSCredentials.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/XmlUtils.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/SignatureVersion.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/SigningAlgorithm.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/AmazonClientException.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/transform/Unmarshallers.java
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/**
 */
* Interface for providing AWS region information. Implementations are free to use any strategy for
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*/

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  jar/com/amazonaws/retry/internal/CredentialsEndpointRetryPolicy.java
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  jar/com/amazonaws/auth/EC2CredentialsFetcher.java
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  jar/com/amazonaws/internal/ConnectionUtils.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
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jar/com/amazonaws/metrics/MetricAdminMBean.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
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jar/com/amazonaws/util/BinaryUtils.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/SdkHttpUtils.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/ValidationUtils.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/timers/client/ClientExecutionAbortTaskImpl.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/timers/request/HttpRequestAbortTask.java

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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/util/JavaVersionParser.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/util/NumberUtils.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/http/timers/client/ClientExecutionAbortTrackerTaskImpl.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/util/SDKGlobalTime.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/DnsResolver.java
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**1.135 lvm2 2.02.143 7.el6**

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.7, May 2nd, 2012

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Jean-loup Gailly        Mark Adler
jloup@gzip.org           madler@alumni.caltech.edu

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

*/

1.137 omx 1.1.2
1.137.1 Available under license :

 src/extension_struct.h

This file will include all the extension structures defined in Bellagio and not present in the OpenMAX spec. These structure will be used with the function getExtensionIndex defined in the standard.
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the
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1.145 strace 4.8 10.el6

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*/
*/
/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

#ifndef _h_config
#define _h_config
/**************************** System dependant compilation flags ****************************/
/
* POSIXThis system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX
/
* POSIXJOBSThis system supports the optional IEEE Std 1003.1-1988 (POSIX)
* job control facilities.
*/
#undef POSIXJOBS
/
* VFORKThis machine has a vfork().
* It used to be that for job control to work, this define
* was mandatory. This is not the case any more.
* If you think you still need it, but you don't have vfork,
* define this anyway and then do #define vfork fork.
*I do this anyway on a Sun because of yellow pages brain damage,  
*[should not be needed under 4.1]  
*and on the iris4d cause SGI's fork is sufficiently "virtual"  
*that vfork isn't necessary.  (Besides, SGI's vfork is weird).  
*Note that some machines eg. rs6000 have a vfork, but not  
*with the berkeley semantics, so we cannot use it there either.  
*/  
#define VFORK  
  
/*  
* BSDJOBS You have BSD-style job control (both process groups and  
a tty that deals correctly  
*/  
#define BSDJOBS  
  
/*  
* BSDTIMES You have BSD-style process time stuff (like rusage)  
* This may or may not be true.  For example, Apple Unix  
*(OREO) has BSDJOBS but not BSDTIMES.  
*/  
#define BSDTIMES  
  
/*  
* BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)  
*/  
#define BSDLIMIT  
  
/*  
* TERMIO You have struct termio instead of struct sgttyb.  
* This is usually the case for SYSV systems, where  
* BSD uses sgttyb. POSIX systems should define this  
* anyway, even though they use struct termios.  
*/  
#undef TERMIO  
  
/*  
* SYSVREL Your machine is SYSV based (HPUX, A/UX)  
* NOTE: don't do this if you are on a Pyramid -- tcsh is  
built in a BSD universe.  
* Set SYSVREL to 1, 2, 3, or 4, depending the version of System V  
you are running. Or set it to 0 if you are not SYSV based  
*/  
#define SYSVREL0  
  
/*  
* YPBUGS Work around Sun YP bugs that cause expansion of ~username  
to send command output to /dev/null  
*/
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 */

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jar/org/codehaus/jackson/map/MappingJsonFactory.java

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#
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1.157 libnl3 3.200

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 */
package org.apache.cxf.rs.security.oauth2.common;

/**
 * Base permission description
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {
    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    /**
     * Gets the permission description
     * @return the description
     */
    public String getDescription() {
        return description;
    }

    /**
     * Sets the permission description
     * @param description
     */
    public void setDescription(String description) {
        this.description = description;
    }

    /**
     * Get the permission value such as "read_calendar"
     * @return the value
     */
    public String getPermission() {
        return permission;
    }

    /**
     * Sets the permission value such as "read_calendar"
     * @param permission the permission value
     */
public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates if this permission has been allocated by default or not.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only.
 * For example, the read-only check-box controls can be used to represent
 * the default scopes
 * @param isDefault true if the permission has been allocated by default
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}

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 */
package org.apache.cxf.rs.security.oauth.data;

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
private boolean isDefault;

public Permission() {
}

public Permission(String permission, String description) {
    this.description = description;
    this.permission = permission;
}

public String getDescription() {
    return description;
}

public void setDescription(String description) {
    this.description = description;
}

public String getPermission() {
    return permission;
}

public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */

public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}

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* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1.jar/org/springframework/oxm/GenericUnmarshaller.java
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* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1.jar/org/springframework/oxm/jibx/JibxMarshaller.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1.jar/org/springframework/oxm/config/CastorMarshallerBeanDefinitionParser.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1.jar/org/springframework/oxm/castor/CastorMarshaller.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1.jar/org/springframework/oxm/config/OxmNamespaceHandler.java
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* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-jar/org/springframework/oxm/config/Jaxb2MarshallerBeanDefinitionParser.java

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* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-jar/org/springframework/oxm/jaxb/ClassPathJaxb2TypeScanner.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-jar/org/springframework/oxm/xstream/XStreamMarshaller.java

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* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/support/SaxResourceUtils.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/UnmarshallingFailureException.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/UnategorizedMappingException.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/xstream/XStreamUtils.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/xmlbeans/XmlOptionsFactoryBean.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/support/MarshallingSource.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/xmlmarshaller.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/config/XmlBeansMarshallerBeanDefinitionParser.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/Marshaller.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/mime/MimeContainer.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/XmlMappingException.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/ValidationFailureException.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/castor/CastorMappingException.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/MarshallingFailureException.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/mime/MimeUnmarshaller.java
* /opt/cola/permits/1136044922_1613665069.92/0/spring-oxm-3-1-4-release-sources-1-
jar/org/springframework/oxm/Marshaller.java
1.162 libxfont 1.5.1 2.el6

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1.163 tomcat-annotations-api 8.0.43

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1.168 curl 7.26.0

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License Mixing

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

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.
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## GnuTLS

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## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

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1.170 mtd-utils 2.1.0

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

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

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

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

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

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

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

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

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

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

@enumerate a
@item
The modified work must itself be a software library.

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

@item
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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

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

@item
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@item
Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.
@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
@end enumerate
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Ty Coon, President of Vice
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That's all there is to it!

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we
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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the 
extent that warranties are provided), that licensees may convey the 
work under this License, and how to view a copy of this License. If 
the interface presents a list of user commands or options, such as a 
menu, a prominent item in the list meets this criterion.


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

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

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

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

The Corresponding Source need not include anything that users 
can regenerate automatically from other parts of the Corresponding 
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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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

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

6. Conveying Non-Source Forms.

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

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

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

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

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

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

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

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@end example

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1.179 geronimo-stax-api 1.0.1

1.180 zenity 2.28.0 1.el6

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schema/trex.py
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test/domapi/ (and test/test_pyxmdom.py)

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1.182 sed 4.2.1-10.el6
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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

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

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP
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This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
                rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

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

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

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

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

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

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

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

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

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

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

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


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.
The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department  
C-Cube Microsystems, Inc.  
1778 McCarthy Blvd.  
Milpitas, CA 95035  
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design.

Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/

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

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

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

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

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

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

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

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

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

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

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

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

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

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

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

1.187 policycoreutils 2.0.83 30.1.el6_8

1.187.1 Available under license :

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    Version 2, June 1991

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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*
* A collection of File Manager and related routines
*
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*
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*
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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The decompression core code for the deflate method (inflate.[ch],
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---

1.189 openssl 1.0.2j
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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0

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

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

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

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

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

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You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
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above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

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

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

@item
If a facility in the modified Library refers to a function or a

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

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

These requirements apply to the modified work as a whole. If
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You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

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

@item Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate
For an executable, the required form of the `work that uses the Library` must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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@end enumerate

@end iftex
@end ifinfo
@end page
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@end smallexample

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.
A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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

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

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6. Conveying Non-Source Forms.

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

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

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

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

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

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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ifndef __LICENSE_H
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endif __LICENSE_H

#define __LICENSE_H
static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

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

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
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single nxt200x frontend driver.

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1.201 axiom-common-impl 1.2.13

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1.202 tftp-hpa 0.49
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* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/tftpd/remap.c
* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0.49-orig-tar-gz/tftp-hpa-0.49/tftpd/misc.c
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Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp
Version: 0.49
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildPreReq: tcp_wrappers
BuildRoot: %{_tmppath}/%{name}-root

*/

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Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildPreReq: tcp_wrappers
BuildRoot: %{_tmppath}/%{name}-root

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

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

description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

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

%build

%configure
make %{?_smp_mflags}

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

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

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

%clean
rm -rf ${RPM_BUILD_ROOT}

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

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

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

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

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

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

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

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

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

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

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

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476
* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

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

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

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

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

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

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

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

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

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

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

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).
* Sat Jan  6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody
    is preferable to starting as nobody w/o ability to chroot.
  - %%post is needed by server, not client. Add %%postun for erasure as well.

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

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

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

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

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

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

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

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

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

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

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

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

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

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

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

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

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

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

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

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

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

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* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/extern.h

1.203 jsp 2.3.FR

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# This file contains a list of people who've made non-trivial contribution to the Google C++ Mocking Framework project. People who commit code to the project are encouraged to add their names here. Please keep the list sorted by first names.

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## xwd v1.0.7

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

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

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

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `:mod:` `socket` module uses the functions, `:func:` `getaddrinfo` , and
`:func:` `getnameinfo` , which are coded in separate source files from the WIDE

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Asynchronous socket services
-----------------------------

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
-----------------------------

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SipHash24
--------

The file `Python/pyhash.c` contains Marek Majkowski’s implementation of Dan Bernstein's SipHash24 algorithm. It contains the following note:

```
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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
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  djb (supercop/crypto_auth/siphash24/little2)
  Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
---------------

The file `Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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

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

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Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)
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QLogic Linux FC-FCoE Driver

This program includes a device driver for Linux 3.x.
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
  * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
  *
  * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
  * http://www.hypermall.com/
  * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
  * interrupts us (except possibly for removal/insertion of the cable?)
  * 10/4/97 - began heavy inline documentation of the code. Corrected typos
  * and spelling mistakes.
  * 10/5/97 - added code to handle PHY interrupts, disable PHY on
*loss of link, and correctly re-enable PHY when link is
*re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstart() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* M. Welsh, 6 July 1996
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for his work on the initial Linux DVB driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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Mesa 3-D graphics library
Version: 7.0

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1.223 zlib 1.1.3

1.223.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.3, July 18th, 2005

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## 1.230 jackson-databind 2.10.1

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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1.231 gdb 7.6.1-114.el7

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"""copyright.py
This script updates the list of years in the copyright notices in
most files maintained by the GDB project.
Usage: cd src/gdb && python copyright.py
Always review the output of this script before committing it!
A useful command to review the output is:
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""
import datetime
import os
import os.path
import subprocess

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def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!).  The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
                for filename in files:
                    relpath = "%s/%s" % (root, filename)
                    if (filename in EXCLUDE_ALL_LIST
                        or relpath in EXCLUDE_LIST
                        or relpath in NOT_FSF_LIST
                        or relpath in BY_HAND):
                        # Ignore this file.
                        pass
                    else:
                        result.append(relpath)
    return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
update_out = p.communicate()[0]

# Process the output. Typically, a lot of files do not have
# a copyright notice :-(. The update-copyright script prints
# a well defined warning when it did not find the copyright notice.
# For each of those, do a sanity check and see if they may in fact
# have one. For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('
'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
    directory.

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    """

    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
return True
lineno += 1
if lineno > 50:
    return False
return False

def main ():
    """The main subprogram.""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):  
        print "Error: This script must be called from the gdb directory." 
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files (update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand." \ 
          "\033[0m"
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print "  ", filename

#######################################################################
# # Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
#######################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = ( 
    'gdb/CONTRIBUTE',
    'gdb/gnulib' 
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
This is mostly for files that can be found in multiple directories.

Eg: We want all files named COPYING to be left untouched.

```
EXCLUDE_ALL_LIST = (  
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
    "fdl.texi", "gpl.texi", "aclocal.m4",  
)
```

The list of files to update by hand.

```
BY_HAND = (  
    # These files are sensitive to line numbering.  
    "gdb/testsuite/gdb.base/step-line.inp",  
    "gdb/testsuite/gdb.base/step-line.c",  
)
```

Files containing multiple copyright headers. This script is only fixing the first one it finds, so we need to finish the update by hand.

```
MULTIPLE_COPYRIGHT_HEADERS = (  
    "gdb/doc/gdb.texinfo",  
    "gdb/doc/refcard.tex",  
    "gdb/gdbarch.sh",  
)
```

The list of file which have a copyright, but not head by the FSF.

```
NOT_FSF_LIST = (  
    "gdb/exc_request.defs",  
    "gdb/gdbtk",  
    "gdb/testsuite/gdb-gdbtk/",  
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",  
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",  
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",  
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",  
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",  
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",  
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",  
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",  
    "sim/arm/arminit.c",  
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",  
    "sim/common/cgen-accfp.c",  
    "sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",  
    "sim/erc32/float.c", "sim/erc32/interf.c", "sim/erc32/sis.c",  
    "sim/erc32/exec.c",  
    "sim/mips/m16run.c", "sim/mips/sim-main.c",  
    "sim/moxie/moxie-gdb.dts",  
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.  
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/id-insn.h",  
)
if __name__ == '__main__':
    main()
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Version 3, 29 June 2007

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Version 3, 29 June 2007

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

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

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

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

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

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
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MA 02110-1301, USA

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You should also get your employer (if you work as a programmer) or your
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Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@end appendixsubsec Preamble

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freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software---to make sure the software is free for all its users.

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

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

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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

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

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

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

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

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@item The modified work must itself be a software library.
@item You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
@item You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
@item If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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That's all there is to it!

BEGIN{
  FS="";
  print "/
" Do not modify this file!! " 
" -* buffer-read-only: t -* vi" 
" :set ro:"
;
  print " It is created automatically by copying.awk."
;
  print " Modify copying.awk instead. <= */";
  print"

  print "#include \"defs.h\"
"
  print "#include \"command.h\"
"
  print "#include \"gdbcmd.h\"
"
  print "static void show_copying_command (char *, int);
"
  print "static void show_warranty_command (char *, int);
"
  print "void _initialize_copying (void);"
"
  print "static void";
  print "show_copying_command (char *ignore, int from_tty)";
  print "{";
}
NR == 1;/^[ 	]*15\. Disclaimer of Warranty\[ ]*$/{
if ($0 ~ //)
else if ($0 !~ /^ [ ]*15\. Disclaimer of Warranty\[ ]*$/)
{
    printf "\n";
    for (i = 1; i < NF; i++)
        printf "%s\", $i;
    printf "%s\n\n", $NF;
}

END

/* For old-timers, allow \"info copying\", etc. */

{ printf "\n";
    for (i = 1; i < NF; i++)
        printf "%s\", $i;
    printf "%s\n\n", $NF;
}

END{ printf "\n";
    printf "void";
    printf "\n_initialize_copying (void)\n{\n    add_cmd ("copying\", no_set_class, show_copying_command,\n            _("Conditions for redistributing copies of GDB."),\n            &showlist);\n    add_cmd ("warranty\", no_set_class, show_warranty_command,\n            _("Various kinds of warranty you do not have."),\n            &showlist);\n    /* For old-timers, allow \"info copying\", etc. */\n    add_info ("copying\", show_copying_command,\n             _("Conditions for redistributing copies of GDB."));\n    add_info ("warranty\", show_warranty_command,\n             _("Various kinds of warranty you do not have."));\n    /* For old-timers, allow \"info copying\", etc. */\n    }";
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1.233 httpclient 4.5.1

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zip/org/objectweb/asm/tree/package.html
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
zip/org/objectweb/asm/attrs/package.html
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 motion/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/tree/analysis/AnalyzerException.java
 motion/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/commons/JSRInlinerAdapter.java
 motion/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-
zip/org/objectweb/asm/tree/TableSwitchInsnNode.java

* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/Handler.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/commons/RemappingClassAdapter.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/util/ASMifierAnnotationVisitor.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/MethodVisitor.java

* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/commons/RemappingFieldAdapter.java
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/xml/SAXAdapter.java
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/src-zip/org/objectweb/asm/xml/Processor.java
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-target-gz/examples/compile/src/Expression.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-target-gz/examples/annotations/src/Annotations.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-target-gz/examples/dependencies/src/org/objectweb/asm/depend/DependencyTracker.java
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-target-gz/examples/dependencies/src/org/objectweb/asm/depend/DependencyVisitor.java
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* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/xml/strip.xsl
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/xml/profile.xsl
* /opt/cola/permits/1093510886_1601987325.85/0/3-3-1-tar/3_3_1/example-tar-gz/examples/xml/copy.xsl

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

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

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

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

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

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

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest
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In addition, mere aggregation of another work not based on the Library
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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
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2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>
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Mesa 3-D graphics library
Version: 7.0

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on
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a) The modified work must itself be a software library.

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

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

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

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Version 3.1, 31 March 2009

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@page
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined...
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (doss@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agi@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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Client application for querying drivers' configuration information

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medium customarily used for software interchange.

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

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Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also combine or
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of these things:

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

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

c) Accompany the work with a written offer, valid for at
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than the cost of performing this distribution.

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

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

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David Megginson, sax@megginson.com
1998-05-11

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*m4/ax_func_which_gethostbyname_r.m4

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Written by: Philip Hazel
Email local part: ph10
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 */
/**
 * Decrypted plaintext data. This value may not be returned if the customer master key is not available or if you
 * didn't have permission to use it.
 */
/**
 * Decrypted plaintext data. This value may not be returned if the customer master key is not available or if you
 * didn't have permission to use it.
 */
/**
 * AWS SDK for Java performs a Base64 encoding on this field before sending this request to AWS service by default.
 * Users of the SDK should not perform Base64 encoding on this field.
 */
/**
 * Warning: ByteBuffers returned by the SDK are mutable. Changes to the content or position of the byte buffer will
 * be seen by all objects that have a reference to this object. It is recommended to call ByteBuffer.duplicate() or
 * ByteBuffer.asReadOnlyBuffer() before using or reading from the buffer. This behavior will be changed in a future
 * major version of the SDK.
 */
 */

@param plaintext
   Decrypted plaintext data. This value may not be returned if the customer master key is not available or if
* you didn't have permission to use it.
*/
/**
 * <p>
 * Decrypted plaintext data. This value may not be returned if the customer master key is not available or if you
 * didn't have permission to use it.
 * </p>
 * <p>
 * {code ByteBuffer}s are stateful. Calling their {code get} methods changes their {code position}. We recommend
 * using {link java.nio.ByteBuffer#asReadOnlyBuffer()} to create a read-only view of the buffer with an
 * independent
 * {code position}, and calling {code get} methods on this rather than directly on the returned {code
 * ByteBuffer}.
 * Doing so will ensure that anyone else using the {code ByteBuffer} will not be affected by changes to the
 * {code position}.
 * </p>
 * *
 * @return Decrypted plaintext data. This value may not be returned if the customer master key is not available or
 * if you didn't have permission to use it.
 */

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1.271 nss 3.21.0-2.el6

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1.273 cglb-nodep 2.2

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1.276 libgssglue 0.1 11.el6

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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#ifndef __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
          || strcmp(license, "GPL v2") == 0
          || strcmp(license, "GPL and additional rights") == 0
          || strcmp(license, "Dual BSD/GPL") == 0
          || strcmp(license, "Dual MIT/GPL") == 0
          || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * 
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 * 
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * 
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 * 
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 * 
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer

Open Source Used In Cisco Unified Communication Manager 12.0.1.SU5 3458
combined, allow nicstar_free_rx_skb to be called to
recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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M. Welsh, 6 July 1996

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src/base/md5.h

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src/bdf/bdfdrivr.c
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1.296 pciutils 3.1.10-4.el6

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*/ 

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

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

Open Source Used in Cisco Unified Communication Manager 12.0.1.SU5 3578
typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

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

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
  @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
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#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

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

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

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

1.299 libidn 1.18

1.299.1 Available under license :

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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d) If distribution of the work is made by offering access to copy
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which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

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

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

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

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Send patches to sysvinit-devel@nongnu.org
The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.313 iptables 1.3.7

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the
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straightforwardly into another language. (Hereinafter, translation is
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"Source code" for a work means the preferred form of the work for
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all the source code for all modules it contains, plus any associated
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   b) You must cause the files modified to carry prominent notices
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   c) You must cause the whole of the work to be licensed at no
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      the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

   If distribution of object code is made by offering access to copy
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source code from the same place satisfies the requirement to
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5. A program that contains no derivative of any portion of the
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   However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

   When a "work that uses the Library" uses material from a header file
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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   If such an object file uses only numerical parameters, data
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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

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

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

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# canonicalize-lgpl.m4 serial 4

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AC_DEFUN([gl_CANONICALIZE_LGPL],
[
  dnl Do this replacement check manually because the file name is shorter
dnl than the function name.
  AC_CHECK_DECLS_ONCE(canonicalize_file_name)
  AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
  if test $ac_cv_func_canonicalize_file_name = no; then
    AC_LIBOBJ(canonicalize-lgpl)
    AC_DEFINE([realpath], [rpl_realpath],
      [Define to a replacement function name for realpath().])
    gl_PREREQ_CANONICALIZE_LGPL
  fi
])

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
[
  AC_CHECK_DECLS_ONCE(canonicalize_file_name)
  AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
  gl_PREREQ_CANONICALIZE_LGPL
])

# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
[
  AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
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])
1.321 cxf-distribution-manifest 2.7.4
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1.322 icu 48

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1.323 zlib 1.2.11

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

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1.329 cxf-rt-rs-security-oauth 2.7.4

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/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */

public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {
    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }
}
public String getDescription() {
    return description;
}

public void setDescription(String description) {
    this.description = description;
}

public String getPermission() {
    return permission;
}

public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}

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1.332 util-linux 2.19.0

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if ($(".sidebar").length == 0)
return;
var a = function() {
var topOfScroll = $(window).scrollTop();
var topOfSidebar = $(".sidebar").offset().top;
var sidebarInner = $(".sidebar-inner");
var bottomOfSidebarInner = $(".sidebar-inner").offset().top + $(".sidebar-inner").outerHeight();
var topOfFooter = $(".footer").offset().top - 10;
var footerHeight = $(".footer").outerHeight();
if (topOfScroll > topOfSidebar) {
if (bottomOfSidebarInner > topOfFooter) {
sidebarInner.css({position:"fixed",bottom:footerHeight,top:""});
} else {
sidebarInner.css({position:"fixed",top:"10px",bottom:""});
}
} else {
sidebarInner.css({position:"relative",top:""});
}
};
$(window).scroll(a);a()
}
moveScroller();
})
</script>

<!-- Custom javascript -->
<script src="/resources/js/main.js" type="text/javascript"></script>
</body>
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# here. Please keep the list sorted by first names.

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<td></td>
<td>KHR/khrplatform.h</td>
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include/GL/gl.h:

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*********************************************************************

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

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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/DispatcherGenerator.java
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/AbstractClassGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BeanMap.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/MulticastDelegate.java
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/ConstructorDelegate.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/NoOp.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AddPropertyTransformer.java

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jar/net/sf/cglib/transform/impl/UndeclaredThrowableStrategy.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/Dispatcher.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/Predicate.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/FixedKeySet.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BulkBeanException.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BeanGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MixinBeanEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/InterceptFieldEnabled.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/ObjectSwitchCallback.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/ClassEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/InterceptFieldCallback.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/AnnotationVisitorTee.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastMember.java
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassTransformerTee.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/TransformingClassGenerator.java

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1.352 eclipse-core-runtime 3.10.0.v20140318-2214

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BIRT Runtime

What is it?

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BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.

BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.

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

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

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

The Website for BIRT.

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

Running the BIRT Engine in Console

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

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

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

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Thanks for using BIRT.

BIRT Team

<http://www.eclipse.org/birt>

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* /opt/cola/permits/1137195005_1614028750.37/0/org-eclipse-core-runtime-3-10-0-v20140318-2214-sources-1-jar/runtime_readme.txt

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1.353 gtk 2.24.23 8.el6

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# This file contains a list of people who've made non-trivial
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* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/bind/support/WebBindingInitializer.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/jsf/el/WebApplicationContextFacesELResolver.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/context/support/SessionScope.java
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* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/web/bind/support/DefaultSessionAttributeStore.java
* /opt/ws_local/PERMITS_SQL/1068640153_1594448142.28/0/spring-web-3-1-4-release-sources-jar/org/springframework/remoting/jaxws/JaxWsSoapFaultException.java

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^L

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

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

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

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your
school, if any, to sign a "copyright disclaimer" for the library, if
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library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

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

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

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Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> =20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike
Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not
GPL-2 ... it was a modified artistic license ... i didn't notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li... [mailto:cracklib-devel-bounces@li...]
> On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
>
> My apologies for not chiming in in anything resembling a reasonable
timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34
On Sunday 05 October 2008, Alec Muffett wrote:

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Nathan Neulinger is the only one who can actually make said change ...

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

---------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> >=20
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> libraries under
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> =-mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33
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the original license (before moving to sourceforge -- aka, 2.7) was not
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change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
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applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.

Mike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
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> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
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>
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Unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. It isn't the place of a library to dictate to application writes what license they should be using. Thus LGPL-2.1 enters to fill this void.

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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting...
it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
> > I am sympathetic. Guys, what do you reckon?
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My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
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From alecm@crypticide.com  Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMPTPSVC(6.0.3790.3959);
     Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMPTPSVC(6.0.3790.3959);
     Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
 Received: from smtp1.srv.mst.edu (131.151.1.43)
     by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
     by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtpr020623
     for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
     by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
     for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helol=192.168.1.3)
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
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3378__patchen__Rhino_03.wav
3258__Jovica__Dronetail_02.wav
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional; if the application does not supply it, the square root function must still compute square roots.)
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with the library, after making changes to the library and recompiling
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include/GL/glxext.h
include/GL/wglxext.h :

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
@end c
@end center

@end display

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1.391 cxf-services-ws-discovery-api 2.7.4

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1.392 tiles-request-servlet 1.0.1

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1.393 curl 7.19.7-52.el6

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jar/org/jvnet/fastinfoset/sax/PrimitiveTypeContentHandler.java
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jar/com/sun/xml/fastinfoset/Notation.java
* /opt/ws_local/PERMITS_SQL/1018977108_1591906629.14/0/fastinfoset-1-2-12-sources-
jar/org/jvnet/fastinfoset/sax/FastInfosetReader.java
* /opt/ws_local/PERMITS_SQL/1018977108_1591906629.14/0/fastinfoset-1-2-12-sources-
jar/com/sun/xml/fastinfoset/algorithm/IntEncodingAlgorithm.java
* /opt/ws_local/PERMITS_SQL/1018977108_1591906629.14/0/fastinfoset-1-2-12-sources-
Open Source Used In Cisco Unified Communication Manager 12.0.1.SU5 4709
1.395 libasyncns 0.8 1.1.el6

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 * @return The port to use when redirecting a request if a data constraint of confidential is
 * required. See {@link org.eclipse.jetty.util.security.Constraint#getDataConstraint()}
 */
/**
 * @return The schema to use when redirecting a request if a data constraint of confidential is
 * required. See {@link org.eclipse.jetty.util.security.Constraint#getDataConstraint()}
 */
/**
 * @param request A request
 * @return true if the request is confidential. This normally means the https schema has been used.
 */
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025959855_1599211825.06/0/jetty-server-8-1-7-v20120910-sources-1-
        jar/org/eclipse/jetty/server/Connector.java
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/**
 * Find out if the request supports CONFIDENTIAL security.
 * @param request the incoming HTTP request
 * @return the result of calling {@link Connector#isConfidential(Request)}, or false
 * if there is no connector
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025959855_1599211825.06/0/jetty-server-8-1-7-v20120910-sources-1-
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        jar/org/eclipse/jetty/server/nio/InheritedChannelConnector.java
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/**
 * By default, we're confidential, given we speak SSL. But, if we've been
told about an confidential port, and said port is not our port, then
* we're not. This allows separation of listeners providing INTEGRAL versus
* CONFIDENTIAL constraints, such as one SSL listener configured to require
* client certs providing CONFIDENTIAL, whereas another SSL listener not
* requiring client certs providing mere INTEGRAL constraints.
*/

AbstractConnector: Abstract implementation of the Connector interface.
acceptors: The number of acceptor threads.
acceptQueueSize: The size of the accept queue.
acceptorPriorityOffset: Priority offset of the acceptor threads. The priority is adjusted by this amount to either favor
the acceptance of new threads and newly active connections or to favor the handling of already dispatched
connections.
forwardedForHeader: The header name for forwarded for (default x-forwarded-for).
forwardedHostHeader: The header name for forwarded hosts (default x-forwarded-host)
forwardedServerHeader: The header name for forwarded server (default x-forwarded-server)
forwarded: Whether reverse proxy handling is on. True if this connector is checking the forwarded for/host/server
headers.
host: Host name of the server.
hostHeader: Forced value for the host header. Only used if forwarded is true.
soLingerTime: Enable or disable SO_LINGER with the specified linger time in seconds.
reuseAddress: Whether the server socket will be opened in SO_REUSEADDR mode.
name: Name of the connector.
resolveNames: Whether or not to use DNS when handling forwards.
confidentialPort: Port to use for confidential redirections.
confidentialScheme: Scheme to use for confidential redirections.
integralPort: Port to use for integral redirections.
integralScheme: Scheme to use for integral redirections.
lowResourcesMaxIdleTime: The period in ms that a connection may be idle when the connector has low resources,
before it is closed.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025959855_1599211825.06/0/jetty-server-8-1-7-v20120910-sources-1-jar/org/eclipse/jetty/server/mx/AbstractConnector-mbean.properties
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/**
 * By default, we're confidential, given we speak SSL. But, if we've been told about an
 * confidential port, and said port is not our port, then we're not. This allows separation of
 * listeners providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener
 * configured to require client certs providing CONFIDENTIAL, whereas another SSL listener not
 * requiring client certs providing mere INTEGRAL constraints.
 */
/**
 * By default, we're integral, given we speak SSL. But, if we've been told about an integral
 * port, and said port is not our port, then we're not. This allows separation of listeners
 * providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener configured to
 * require client certs providing CONFIDENTIAL, whereas another SSL listener not requiring
 * client certs providing mere INTEGRAL constraints.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025959855_1599211825.06/0/jetty-server-8-1-7-v20120910-sources-1-jar/org/eclipse/jetty/server/ssl/SslSocketConnector.java
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/*
 * @see org.eclipse.jetty.server.Connector#getConfidentialPort()
 */
/*
 * @see org.eclipse.jetty.server.Connector#getConfidentialScheme()
 */
/*
 * @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server .Request)
 */
/*
 * @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server.Request)
 */

/**
 * @param confidentialPort
 *            The confidentialPort to set.
 */

/**
 * @param confidentialScheme
 *            The confidentialScheme to set.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025959855_1599211825.06/0/jetty-server-8-1-7-v20120910-sources-1-
jar/org/eclipse/jetty/server/AbstractConnector.java

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Connector: HTTP Connector.
server: MObject:RO:The server for this connector
requestHeaderSize: The size of a request header buffer
requestBufferSize: The size of a request content buffer
responseHeaderSize: The size of a response header buffer
responseBufferSize: The size of a response content buffer
integralPort: Port to use for integral redirections
integralScheme: Scheme to use for integral redirections
confidentialPort: Port to use for confidential redirections
confidentialScheme: Scheme to use for confidential redirections
host: Host name to accept connections on
port: TCP/IP port to accept connections on
maxIdleTime: Maximum time in ms that a connection can be idle before being closed
statsOn: True if statistics collection is turned on.
statsOnMs: Time in milliseconds stats have been collected for.
statsReset(): Reset statistics.
connections: Number of connections accepted by the server since statsReset() called. Undefined if setStatsOn(false).
connectionsOpen: Number of connections currently open that were opened since statsReset() called. Undefined if setStatsOn(false).
connectionsOpenMax: Maximum number of connections opened simultaneously since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationMean: Mean duration in milliseconds of open connections since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationStdDev: Standard deviation of duration in milliseconds of an open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationMax: Maximum duration in milliseconds of an open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationTotal: Total duration in milliseconds of all open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsMean: Mean number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsStdDev: Standard deviation of number of requests per connection since statsReset() called. Undefined if setStatsOn(false).

connectionsRequestsMax: Maximum number of requests per connection since statsReset() called. Undefined if setStatsOn(false).

requests: Number of requests since statsReset() called. Undefined if setStatsOn(false).

open(): Open the listening port

close(): Close the listening port (but allow existing connections to continue for graceful shutdown)

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025959855_1599211825.06/0/jetty-server-8-1-7-v20120910-sources-1- jar/org/eclipse/jetty/server/jmx/Connector-mbean.properties

1.398 jackson 2.10.1

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1.405 CiscoSSL 1_0_2u_6_2_374

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1.407 pc re 7.8

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Written by: Philip Hazel
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---------------

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com
Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
----------------------------

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Modified by Jack Jansen, CWI, July 1995:  
- Use binascii module to do the actual line-by-line conversion  
  between ascii and binary. This results in a 1000-fold speedup. The C  
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--------------------------

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== robotparser.py

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

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

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

/* .............................................................................
The code in this module was based on a download from:

It was modified in 2002 by Raymond Hettinger as follows:

* the principal computational lines untouched except for tabbing.

* renamed genrand_res53() to random_random() and wrapped
  in python calling/return code.

* genrand_int32() and the helper functions, init_genrand()
  and init_by_array(), were declared static, wrapped in
  Python calling/return code. also, their global data
  references were replaced with structure references.

* unused functions from the original were deleted.
  new, original C python code was added to implement the
  Random() interface.

The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/
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# -*- coding: iso-8859-1 -*-
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# The bdist_wininst command proper
# based on bdist_wininst

-- abs.decTest -- decimal absolute value
-- Copyright (c) IBM Corporation, 1981, 2008. All rights reserved. --

/* uniconnedata -- Provides access to the Unicode 5.1 data base.

Data was extracted from the Unicode 5.1 UnicodeData.txt file.

Written by Marc-Andre Lemburg (mal@lemburg.com).
Modified for Python 2.0 by Fredrik Lundh (fredrik@pythonware.com)
Modified by Martin v. Lwis (martin@v.loewis.de)

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------------------------------------------------------------------------
# ElementTree
# $Id: ElementInclude.py 1862 2004-06-18 07:31:02Z Fredrik $
#
# limited xinclude support for element trees
#
# history:
# 2003-08-15 fl   created
# 2003-11-14 fl   fixed default loader
#
# Copyright (c) 2003-2004 by Fredrik Lundh. All rights reserved.
#
# fredrik@pythonware.com
# http://www.pythonware.com
#
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#
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#
# -- Gregory P. Smith <greg@krypto.org>
#
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#
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#
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1.419 ncurses 5.7

1.419.1 Available under license:

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

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-------------------------------------------------------------------------------
Files: *
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1.420 vim 7.4.629-5.el6
1.420.1 Available under license :
   *uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

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==============================================================================
Kibaale Children's Centre* kcc* * Kibaale* * charity*

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

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

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

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

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

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

*donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

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

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

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

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

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

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

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

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

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

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

vim:tw=78:ts=8:ft=help:norl:
" Vim syntax file
" Language: Software Distributor product specification file
" *(POSIX 1387.2-1995).
" Maintainer: Rex Barzee <rex_barzee@hp.com>
" Last change: 25 Apr 2001

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

" Product specification files are case sensitive
syn case match

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

syn match psfUnquotString +["#" ][^#]+ contained
Some of the attributes covered by attUnquotString and attQuotString:
- architecture
- category_tag
- control_directory
- copyright
- create_date
- description
- directory
- file_permissions
- install_source
- install_type
- location
- machine_type
- mod_date
- number
- os_name
- os_release
- os_version
- pose_as_os_name
- pose_as_os_release
- readme
- revision
- share_link
- title
- vendor_tag

These regions are defined in attempt to do syntax checking for some of the attributes.

"^\s*\{ancestor|applied_patches|applied_to|contents|corequisites|exrequisites|prerequisites|software_spec|supersedes|superseded_by\}\s+" contains=psfObjTag,psfAttAbbrev,psfComment end="" keepend

"^\s*\{compressed_size|instance_id|media_sequence_number|sequence_number|size\}\s+" contains=psfNumber,psfComment end="" keepend oneline

"^\s*\{create_time|ctime|mod_time|mtime|timestamp\}\s+" contains=psfNumber,psfComment end="" keepend oneline
contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib start="^\s*(data_model_revision|layout_version)\s+" contains=psfFloat,psfComment end="$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="^\s*install_date\s+" contains=psfLongDate,psfComment end="$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="^\s*(state)\s+" contains=psfState,psfComment end="$" keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="^\s*(patch_state)\s+" contains=psfPState,psfComment end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib start="^\s*(is_kernel|is_locatable|is_patch|is_protected|is_reboot|is_reference|is_secure|is_sparse)\s+" contains=psfBoolean,psfComment end="$" keepend oneline

syn match  psfComment "#.*$

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

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

HiLink psfComment       Comment

delcommand HiLink
endif

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

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1.421 libxtst 1.2.2-2.1.el6

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enhancements to mutexes;
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That's all there is to it!
# This file contains a list of people who've made non-trivial contribution to the Google C++ Testing Framework project. People who commit code to the project are encouraged to add their names here. Please keep the list sorted by first names.

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/* *Parts of this software have been adapted from the libpng package.       */
/* * Although this library supports all features from the PNG specification */
/* * (as MNG descends from it) it does not require the libpng package.      */
/* * It does require the zlib library and optionally the IJG jpeg library,  */
/* * and/or the "little-cms" library by Marti Maria (depending on the       */
/* * inclusion of support for JNG and Full-Color-Management respectively.   */
/* * This library's function is primarily to read and display MNG animations. It is not meant as a full-featured image-editing component! It does however offer creation and editing functionality at the chunk level. (future modifications may include some more support for creation and or editing) */

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

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2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed?

Yes!

4. Can I change or add to the font(s)?

Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software
with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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1.430 busybox 1.19.4

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jseward@bzip.org
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static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}

#ifdef

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

#endif

* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.

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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
*
*/

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for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
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Diego Picciani <d.picciani@novacomp.it>
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Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

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   for the or51211 and or51132 frontend drivers, and
   for merging the nxt2002 and nxt2004 modules into a
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
and spelling mistakes.

- 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
- Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 $Revision: 1.1 $ $Date: 1999/08/20 11:00:11 $

* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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That's all there is to it!
Thanks go to the following people for patches and contributions:

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for the initial saa7146 driver and it's recent overhaul

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for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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1.438 expat 2.0.1 13.el6_8

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THE C++ WRAPPER FUNCTIONS

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

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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
   nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG PHYIE bit - we don't care when the PHY
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   * loss of link, and correctly re-enable PHY when link is
   * re-established. (put back CFG PHYIE)
   *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
   *
   * Linux driver for the IDT77201 NICStAR PCI ATM controller.
   * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
   * see init_nicstart() for PHY initialization to change this. This driver
   * expects the Linux ATM stack to support scatter-gather lists
   * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
   *
   * Implementing minimal-copy of received data:
   * IDT always receives data into a small buffer, then large buffers
   * as needed. This means that data must always be copied to create
   * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
   * Fix is simple: make large buffers large enough to hold entire
   * SDU, and leave <small_buffer_data> bytes empty at the start. Then
   * copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
  * 1) skb->destructor / skb->atm.recycle_buffer
  * combined, allow nicstar_free_rx_skb to be called to
  * recycle large data buffers
  * 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
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<signature of Ty Coon>, 1 April 1989
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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

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

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TI DSP/Bridge Driver - Contributors File

The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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

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

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

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

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

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

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

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

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

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 *         interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb’s passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
*
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procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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```

## 1.488 Ilvm 3.6.2-1.el6

### 1.488.1 Available under license:

```c
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right register classes.

define void @autogen_SD4739(i8*) {
 ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
 BB:
 %L34 = load i8, i8* %0
 %Cmp56 = icmp sgt i8 undef, %L34
 br label %CF246

 CF246: ; preds = %CF246, %BB
 %SI163 = select i1 %Cmp56, i8 %L34, i8 undef
```
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa (%rsi), %ymm0
; CHECK-NEXT:  vmovdqa32(%rsi), %ymm1
; CHECK-NEXT:  vpuvgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT:  vpuvgb32(%rdi), %ymm1, %ymm1
; CHECK-NEXT:  vmovdqum %ymm1, (%rax)
; CHECK-NEXT:  vmovdqum %ymm0, (%rax)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nnuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nnuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
)

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqau64 (%rsi), %zmm0
; CHECK-NEXT:  vpuvgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT:  vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nnuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nnuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: pmaddwd_32_256:
  ; CHECK:    # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: pmaddwd_32_512:
  ; CHECK:    # %bb.0:
  ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, 32(%rdx)
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:  movl %edx, %eax
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  xorl %ecx, %ecx
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB8_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT:  vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT:  vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT:  vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT:  vpaddd %ymm1, %ymm3, %ymm1
; CHECK-NEXT:  vpmovsxbw 16(%rsi,%rcx), %ymm3
; CHECK-NEXT:  vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT:  vpaddd %ymm2, %ymm3, %ymm2
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB8_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT:  vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %9, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index, 32
br i1 %12, label %middle.block, label %vector.body

middle.block:
  %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> %i32 16, %i32 17, %i32 18, %i32 19, %i32 20,
  %i32 21, %i32 22, %i32 23, %i32 24, %i32 25, %i32 26, %i32 27, %i32 28, %i32 29, %i32 30, %i32 31, %i32 undef, %i32 undef,
  %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef,
  %i32 undef, %i32 undef, %i32 undef, %i32 undef
  %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
  %rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> %i32 8, %i32 9, %i32 10, %i32 11, %i32
  12, %i32 13, %i32 14, %i32 15, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef,
  %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef,
  %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef
  %bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
  %rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> %i32 4, %i32 5, %i32 6, %i32 7, %i32
  undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef,
  %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef,
  %i32 undef, %i32 undef, %i32 undef, %i32 undef
  %bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
  %rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> %i32 2, %i32 3, %i32 undef, %i32
  undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef,
  %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef,
  %i32 undef, %i32 undef, %i32 undef, %i32 undef
  %bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
  %rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> %i32 1, %i32 undef, %i32 undef,
  %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef,
  %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef,
  %i32 undef, %i32 undef, %i32 undef, %i32 undef
  %bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
  %13 = extractelement <32 x i32> %bin.rdx20, %i32 0
ret %i32 %13
}
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: _Z9test_charPcS_i_512:
  ; CHECK: # %bb.0: # %entry
  ; CHECK-NEXT: movl %edx, %eax
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT: xorl %ecx, %ecx
  ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT: .p2align 4, 0x90
  ; CHECK-NEXT: .LBB9_1: # %vector.body
  ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
}
@a = global [1024 x i8] zeroinitializer, align 16
@a = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sad_16i8_256:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
    ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT: .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB10_1: # %vector.body
    ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm2
    ; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2, %xmm2
    ; CHECK-NEXT: vpaddd %ymm1, %ymm2, %ymm1
    ; CHECK-NEXT: vextracti128 $1, %ymm1, %xmm1
    ; CHECK-NEXT: .p2align 4, 0x90
    ; CHECK-NEXT: .LBB110_1: # %vector.body
    ; CHECK-NEXT: # ==>This Inner Loop Header: Depth=1
    ; CHECK-NEXT: vpaddd %ymm1, %ymm2, %ymm1
    ; CHECK-NEXT: vpaddd %ymm1, %ymm2, %ymm1
    ; CHECK-NEXT: vpaddd %ymm1, %ymm2, %ymm1
    ; CHECK-NEXT: vpshufd {%.*#+} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT: vpshufd {%.*#+} xmm1 = xmm0[1,1,2,3]
    ; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
}
entry:
    br label %vector.body

vector.body:
    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ 10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8] @a, i64 0, i64 %index
    %1 = bitcast i8* %0 to <16 x i8>*
    %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
    %2 = zext <16 x i8> %wide.load to <16 x i32>
    %3 = getelementptr inbounds [1024 x i8], [1024 x i8] @b, i64 0, i64 %index
    %4 = bitcast i8* %3 to <16 x i8>*
    %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
    %5 = zext <16 x i8> %wide.load1 to <16 x i32>
    %6 = sub nsw <16 x i32> %2, %5
    %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
    %8 = sub nsw <16 x i32> zeroinitializer, %6
    %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
    %10 = add nsw <16 x i32> %9, %vec.phi
    %index.next = add i64 %index, 4
    %11 = icmp eq i64 %index.next, 1024
    br i1 %11, label %middle.block, label %vector.body

middle.block:
    %lcssa = phi <16 x i32> [ 10, %vector.body ]
    %rdx.shuf = shufflevector <16 x i32> %lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx = add <16 x i32> %lcssa, %rdx.shuf
    %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
    %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
    %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
    %12 = extractelement <16 x i32> %bin.rdx4, i32 0
    ret i32 %12
}
define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sad_16i8_512:
    ; CHECK:
    ; # %bb.0: # %entry
    ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT: movq -1024, %rax # imm = 0xFC00
    ; CHECK-NEXT: .p2align 4, 0x90
    ; CHECK-NEXT: .LBB11_1: # %vector.body
    ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
    ; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
    ; CHECK-NEXT: vadd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT: .LBB11_1: # %vector.body
    ; CHECK-NEXT: vextracti64x4 %zmm0, %ymm1
    ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT: vextracti128 %ymm0, %xmm1
    ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
    ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT: vadd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT: vmovd %xmm0, %eax
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    entry:
    br label %vector.body

type.body:

%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitialize, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 0
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitialize, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body
middle.block:
\%
.lcssa = phi <16 x i32> [ %10, %vector.body ]
\%
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
\%
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
\%
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
\%
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
\%
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
\%
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
\%
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
\%
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
\%
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
\%
ret i32 %12
}
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="256" { 
; CHECK-LABEL: sbto16f64_256:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %ymm0
; CHECK-NEXT:  vcvtqd2pd %xmm0, %ymm1
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:  vcvtqd2pd %xmm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm2
; CHECK-NEXT:  vcvtqd2pd %xmm2, %ymm3
; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:  vcvtqd2pd %xmm2, %ymm2
; CHECK-NEXT:  vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" { 
; CHECK-LABEL: sbto16f64_512:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vcvtqd2pd %ymm0, %zmm1
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:  vcvtqd2pd %ymm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, 96(%rdi)
; CHECK-NEXT:  vmovaps %zmm1, 64(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f32_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  kshiftrw S8, %k0, %k1
  ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
  ; CHECK-NEXT:  vpslld $31, %ymm0, %ymm0
  ; CHECK-NEXT:  vcvtq2ps %ymm0, %ymm0
  ; CHECK-NEXT:  vpmovm2d %k0, %ymm1
  ; CHECK-NEXT:  vpslld $31, %ymm1, %ymm1
  ; CHECK-NEXT:  vcvtq2ps %ymm1, %ymm1
  ; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
  ; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: ubto16f32_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
  ; CHECK-NEXT:  vpsrlq $31, %zmm0, %zmm0
  ; CHECK-NEXT:  vcvtq2ps %zmm0, %zmm0
  ; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
  ; CHECK-NEXT:  vmovaps %zmm0, 32(%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f64_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  kshiftrw S8, %k0, %k1
  ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
  ; CHECK-NEXT:  vpsrlq $31, %ymm0, %ymm0
  ; CHECK-NEXT:  vcvtq2pd %xmm0, %ymm1
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}
; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 [ %k1 ] [z]
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fproui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select

} define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:  vpslld $31, %zmm1, %zmm1
; CHECK-NEXT:  vpmovd2m %zmm1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 [ %k1 ] [z]
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select

} define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k0
; CHECK-NEXT:  vcvttps2dq $32(%rdi), %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k1
; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 [ %k1 ] [z]
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select

} define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:  vpmovd2m %zmm1, %k0
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 [ %k1 ] [z]
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select

} define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:  vpmovd2m %zmm1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 [ %k1 ] [z]
define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" { ; CHECK-LABEL: mul256:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT:    vpunpckhbw [(.#)] %ymm4 =
        ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13 ],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31 ]
    ; CHECK-NEXT:    vpunpckhbw [(.#)] %ymm5 =
        ymm0[8],ymm9,ymm10,ymm11,ymm12,ymm13,ymm14,ymm15,ymm16,ymm17,ymm18,ymm19,ymm20,ymm21,ymm22,ymm23,ymm24,ymm25,ymm26,ymm27,ymm28,ymm29,ymm30,ymm31
    ; CHECK-NEXT:    vpmullw %ymm4, %ymm5, %ymm4
    ; CHECK-NEXT:    vmovdqa [(.#)] %ymm5 =
    ; CHECK-NEXT:    vpand %ymm5, %ymm4, %ymm4
    ; CHECK-NEXT:    vpunpcklbw [(.#)] %ymm2 =
        ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
    ; CHECK-NEXT:    vpunpcklbw [(.#)] %ymm0 =
        ymm0[0],ymm1,ymm2,ymm3,ymm4,ymm5,ymm6,ymm7,ymm8,ymm9,ymm10,ymm11,ymm12,ymm13 ,ymm14,ymm15,ymm16,ymm17,ymm18,ymm19,ymm20,ymm21,ymm22,ymm23,ymm24,ymm25,ymm26,ymm27,ymm28,ymm29,ymm30,ymm31
    ; CHECK-NEXT:    vpmullw %ymm2, %ymm0, %ymm0
    ; CHECK-NEXT:    vpand %ymm5, %ymm0, %ymm0
    ; CHECK-NEXT:    vpackuswb %ymm4, %ymm0, %ymm0
    ; CHECK-NEXT:    vpunpckhbw [(.#)] %ymm2 =
        ymm3[8],ymm3[9],ymm3[10],ymm3[11],ymm3[12],ymm3[13 ],ymm3[14],ymm3[15],ymm3[24],ymm3[25],ymm3[26],ymm3[27],ymm3[28],ymm3[29],ymm3[30],ymm3[31],ymm0[31 ]
    ; CHECK-NEXT:    vpunpckhbw [(.#)] %ymm4 =
        ymm1[8],ymm1[9],ymm1[10],ymm1[11],ymm1[12],ymm1[13 ],ymm1[14],ymm1[15],ymm1[24],ymm1[25],ymm1[26],ymm1[27],ymm1[28],ymm1[29],ymm1[30],ymm1[31],ymm1[31]
    ; CHECK-NEXT:    vpmullw %ymm2, %ymm4, %ymm2
    ; CHECK-NEXT:    vpand %ymm5, %ymm2, %ymm2
    ; CHECK-NEXT:    vpunpcklbw [(.#)] %ymm3 =
        ymm3[0],ymm3[1],ymm3[2],ymm3[3],ymm3[4],ymm3[5],ymm3[6],ymm3[7],ymm3[8],ymm3[9],ymm3[10],ymm3[11],ymm3[12],ymm3[13 ],ymm3[14],ymm3[15],ymm3[24],ymm3[25],ymm3[26],ymm3[27],ymm3[28],ymm3[29],ymm3[30],ymm3[31],ymm3[31],ymm0[31]
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: mul512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm1
    ; CHECK-NEXT:    vpunpckhbw {{.*#+}} zmm2 =
    ; CHECK-NEXT:    vpunpckbhw {{.*#+}} zmm3 =
    ; CHECK-NEXT:    vmovdqa64 (%rdx), %zmm2
    ; CHECK-NEXT:    vmovdqa64 (%rdx), %zmm3
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
)

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}
; CHECK-NEXT:  vpunpcklbw {{.*#+}} zmm0 =
    zmm0[0,1,2,3,4,5,6,7,8,16,17,18,19,20,21,22,23,24,32,33,34,35,36,37,38,39,40,48,49,50,51,52,53,54,55,55]
; CHECK-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpandq %zmm3, %zmm0, %zmm0
; CHECK-NEXT:  vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
    %d = load <64 x i8>, <64 x i8>* %a
    %e = load <64 x i8>, <64 x i8>* %b
    %f = mul <64 x i8> %d, %e
    store <64 x i8> %f, <64 x i8>* %c
    ret void
}
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<none yet>

; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512
define void @zext256() "min-legal-vector-width"="256" { 
; VEC256-LABEL: 'zext256'
; VEC256-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext256'
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @zext512() "min-legal-vector-width"="512" { 
; AVX-LABEL: 'zext512'
; AVX-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}
define void @sext256() "min-legal-vector-width"="256" {
 ; VEC256-LABEL: 'sext256'
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext256'
define void @sext512() "min-legal-vector-width"="512" {

; AVX-LABEL: 'sext512'

; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
ret void

; SKX256-LABEL: 'sext512'

; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
ret void

}
; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}
$OpenBSD: COPYRIGHT,v 1.3 2003/06/02 20:18:36 millert Exp $

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/*-.
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*
* @(#)COPYRIGHT8.1 (Berkeley) 3/16/94
* /
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: ; preds = %entry
    br label %while.body
while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [ ]
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

sw.bb.i: ; preds = %while.body
  unreachable

sw.bb3.i: ; preds = %while.body
  unreachable

exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [ ]
    i32 1, label %sw.bb.i17
    i32 2, label %sw.bb3.i20
  ]

sw.bb.i17: ; preds = %.exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

sw.bb3.i20: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

exit.2: ; preds = %exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body

while.end: ; preds = %entry
  ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; CHECK-LABEL: test_sitofp_fixed:
    ; First, extend each i32 to i64
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
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; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:
; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

define internal void @innerSmall("
ret void
}

define internal void @innerLarge("
ret void
}

define internal void @innerNoAttribute() {
ret void
}
; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
call void @innerLarge()
ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
call void @innerLarge()
ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
call void @innerSmall()
ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
call void @innerNoAttribute()
ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG:  %[[C1:const[0-9]??]] = bitcast i32 805874720 to i32
; CHECK-DAG:  %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK-DAG:  %[[C3:const[0-9]??]] = bitcast i32 805873720 to i32
; CHECK-DAG:  %[[C4:const[0-9]??]] = bitcast i32 805873688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT:  %1 = load volatile i8, i8* %0
; CHECK-NEXT:  %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 31
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT:  %5 = load volatile i8, i8* %4
; CHECK-NEXT:  %[[M3:const_mat[0-9]??]] = add i32 %[[C1]], 7
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %[[M4:const_mat[0-9]??]] = add i32 %[[C4]], 31
; CHECK-NEXT:  %8 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT:  %9 = load volatile i8, i8* %8
; CHECK-NEXT:  %[[M5:const_mat[0-9]??]] = add i32 %[[C1]], 80
; CHECK-NEXT:  %10 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT:  store i8 %9, i8* %10
; CHECK-NEXT:  %[[M6:const_mat[0-9]??]] = add i32 %[[C1]], 80
; CHECK-NEXT:  %11 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT:  store i8 %7, i8* %11
; CHECK-NEXT:  %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT:  store i8 %5, i8* %12
; CHECK-NEXT:  %[[M7:const_mat[0-9]??]] = add i32 %[[C3]], 7
; CHECK-NEXT:  %13 = inttoptr i32 %[[M7]] to i8*
; CHECK-NEXT:  store i8 %3, i8* %13
; CHECK-NEXT:  %14 = inttoptr i32 %[[M6]] to i8*

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define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*)
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*)
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*)
  %3 = load volatile i16, i16* inttoptr (i32 805874727 to i16*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 22
; CHECK-NEXT: %8 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M5:const_mat[0-9]??]] = add i32 %[[C1]], 54
; CHECK-NEXT: %10 = inttoptr i32 %[[M5]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %8 = add i32 %[[C2]], 4
; CHECK-NEXT: %9 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %10 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

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</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/regex COPYRIGHT.regex</td>
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<td>pyyaml tests</td>
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; RUN: llc %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

define fp128 @TestSelect(fp128 %a, fp128 %b) {
%cmp = fcmp ogt fp128 %a, %b
%sub = fsub fp128 %a, %b
%res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
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    lib/krb5/kdb/kdb_log.h
    lib/libgss/g_accept_sec_context.c
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```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
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Version 2, June 1991

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com) */
/* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) */
/* */
/* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc. */
/* http://www.hypermall.com/ */
/* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?) */
/* 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes. */
/* 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE) */
/* */
/* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only. */
/* */
/* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 */

Open Source Used In Cisco Unified Communication Manager 12.0.1.SU5 5940
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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*
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* 
* M. Welsh, 6 July 1996
* 
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1.496 tcsh 6.17 35.el6
1.496.1 Available under license:

People who have contributed to tcsh for win32 with bugfixes, functionality, 
and other useful pieces of code. If I've left you out, please let me know!

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*/
/*

* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

#ifndef _h_config
#define _h_config

/****************** System dependant compilation flags ****************/
/*
* POSIX	This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBS	This system supports the optional IEEE Std 1003.1-1988 (POSIX)
* job control facilities.
*/
#undef POSIXJOBS

/*
* VFORK	This machine has a vfork().
* It used to be that for job control to work, this define
* was mandatory. This is not the case any more.
* If you think you still need it, but you don't have vfork,
* define this anyway and then do #define vfork fork.
* I do this anyway on a Sun because of yellow pages brain damage,
* [should not be needed under 4.1]
* and on the iris4d cause SGI's fork is sufficiently "virtual"
* that vfork isn't necessary. (Besides, SGI's vfork is weird).
* Note that some machines eg. rs6000 have a vfork, but not
* with the berkeley semantics, so we cannot use it there either.
*/
/*
#define VFORK

/*/ 
* BSDJOBS You have BSD-style job control (both process groups and
*a tty that deals correctly
*/
#define BSDJOBS

/*/ 
* BSDTIMES You have BSD-style process time stuff (like rusage)
*This may or may not be true. For example, Apple Unix
*(OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES

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

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

/*/ 
* SYSVREL Your machine is SYSV based (HPUX, A/UX)
*NOTE: don't do this if you are on a Pyramid -- tsh is
*built in a BSD universe.
*Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
*you are running. Or set it to 0 if you are not SYSV based
*/
#define SYSVREL0

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

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

#undef NLS_CATALOGS
#endif /* _h_config */
1.497 polkit 0.96 11.el6

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1.498 pcre 7.8-7.el6

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1.499 dbus-glib 0.86 6.el6

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table, the facility still operates, and performs whatever part of
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Mesa 3-D graphics library
Version: 7.0

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

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

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

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.
Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

Steve Haworth contributed the support for the Texas Instruction c30 (tm320c30).

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

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

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

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

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1.509 stlport 5.2.1

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#ifndef _STLP_CLIMITS
#define _STLP_CLIMITS

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x108
#include <stl/_prolog.h>
#endif

#if defined (__SUNPRO_CC) && ((__SUNPRO_CC == 0x500) && (__SUNPRO_CC_COMPAT > 4))
#include </usr/include/limits.h>
#elif defined (_STLP_USE_NEW_C_HEADERS)
#ifdef _STLP_HAS_INCLUDE_NEXT
#include_next <climits>
#else
#include _STLP_NATIVE_CPP_C_HEADER(climits)
#endif
#else
#if defined (__BORLANDC__)
#ifdef _STLP_HAS_INCLUDE_NEXT
#include_next <limits.h>
#else
#include _STLP_NATIVE_C_HEADER(limits.h)
#endif
#else
#include <limits.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x108)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CLIMITS */

// Local Variables:
// mode:C++
// End:

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 */

#ifndef _STLP_VECTOR

#ifndef _STLP_OUTERMOST_HEADER_ID
 #define _STLP_OUTERMOST_HEADER_ID 0x77
 #include <stl/_prolog.h>
 #define _STLP_VECTOR
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x77)
 #ifndef _STLP_INTERNAL_ALGOBASE_H
 # include <stl/_algobase.h>
 #endif

 #ifndef _STLP_INTERNAL_VECTOR_H
 # include <stl/_vector.h>
 #endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x77) || defined (_STLP_IMPORTED_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
 # include_next <vector>
#else
 #include _STLP_NATIVE_HEADER(vector)
#endif
#endif
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 * *
 */

#ifndef _STLP_CWCHAR
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x120
#define _STLP_CWCHAR
#include <stl/_prolog.h>
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x120)
#ifndef _STLP_INTERNAL_CWCHAR
#include <stl/_cwchar.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x120) || defined (_STLP_IMPORT_VENDOR_STD)
#ifndef _STLP_INTERNAL_CWCHAR
#include <stl/_cwchar.h>
#endif
#endif
#endif /* _STLP_CWCHAR */
# include <cwchar>

# include_next <cwchar>

# else
# include _STLP_NATIVE_CPP_C_HEADER(cwchar)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x120)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CWCHAR */

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_debug.c
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#ifndef _STLP_NUMERIC
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x49
# include <stl/_prolog.h>
# define _STLP_NUMERIC
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x49)
# ifndef _STLP_INTERNAL_NUMERIC_H
#  include <stl/_numeric.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x49) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#  include_next <numeric>
#  else
#   # include _STLP_NATIVE_HEADER(numeric)
#  endif
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x49)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_NUMERIC */

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_bitset.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_bitset.h
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/_stdexcept.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/_rope.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/char_traits.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/_stdexcept_base.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/_fstream.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/functional
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/_stdexcept_base.c
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Found in path(s):
/opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_string.h

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#ifndef _STLP_STREAMBUF
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1066
#include <stl/_prolog.h>
#define _STLP_STREAMBUF
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x1066) && (!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/_ioserr.h>
#ifndef _STLP_INTERNAL_STREAMBUF
#include <stl/_streambuf.h>
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x1066) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#  include_next <streambuf>
# else
#  include _STLP_NATIVE_HEADER(streambuf)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1066)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_STREAMBUF */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/streambuf
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~~~~~~~~~~~~
test_construct.h

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*/

#ifndef _STLP_STRING

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x68
# include <stl/_prolog.h>
# define _STLP_STRING
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x68)
# ifndef _STLP_INTERNAL_STRING_H
#   include <stl/_string.h>
# endif
# ifndef _STLP_STRING_HASH_H
#   include <stl/_string_hash.h>
# endif
# if !defined (_STLP_USE_NO_IOSTREAMS) && !defined (_STLP_STRING_IO_H)
#   include <stl/_string_io.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x68) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <string>
# else
#   include _STLP_NATIVE_HEADER(string)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x68)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
* to make it close to JTC1/SC22/WG21 C++ 0x working draft
* [http://www.open-std.org/Jtc1/sc22/wg21/docs/papers/2008/n2521.pdf]
*/

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/type_traits
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/***********************************************************************************
ThrowCompare.h

Interface for the ThrowCompare class

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TestClass.cpp

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*
*/

#ifndef _STLP_ITERATOR

Open Source Used In Cisco Unified Communication Manager 12.0.1.SU5 6202
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x38
#include <stl/_prolog.h>
define _STLP_ITERATOR
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x38)
#define _STLP_INTERNAL_ITERATOR_H
#define _STLP_INTERNAL_STREAM_ITERATOR_H
#include <stl/_iterator.h>
#include <stl/_stream_iterator.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x38) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <iterator>
#else
#include _STLP_NATIVE_HEADER(iterator)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x38)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_ITERATOR */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iterator
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/* boost limits_test.cpp test your <limits> file for important */
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  *
  */

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/limits_test.cpp
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_valarray.cpp
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*/
<table>
<thead>
<tr>
<th>Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>*/opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5-2.1/stlport/stl_valarray.h</td>
</tr>
<tr>
<td>*/opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5-2.1/src/codecvt.cpp</td>
</tr>
<tr>
<td>*/opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5-2.1/stlport/stl_messages_facets.h</td>
</tr>
<tr>
<td>*/opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5-2.1/src/locale.cpp</td>
</tr>
<tr>
<td>*/opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5-2.1/src/ios.h</td>
</tr>
<tr>
<td>*/opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5-2.1/src/ios_base.h</td>
</tr>
<tr>
<td>*/opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5-2.1/src/ios_c</td>
</tr>
<tr>
<td>*/opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5-2.1/src/messages.cpp</td>
</tr>
<tr>
<td>*/opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5-2.1/src/ios_base.cpp</td>
</tr>
<tr>
<td>*/opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5-2.1/src/ios_c</td>
</tr>
<tr>
<td>*/opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5-2.1/src/ios_base.cpp</td>
</tr>
</tbody>
</table>
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/debug/_string_sum_methods.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/pointers/_tools.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/pointers/_vector.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/pointers/_list.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/_string_sum.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/_string_operators.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/_string_sum_methods.h
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iterator_old.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iterator.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iterator_base.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_function.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_function_base.h

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#include <stl/_prolog.h>

if (_STLP_OUTERMOST_HEADER_ID == 0x15) && !defined (_STLP_DONT_POP_HEADER_ID)
#define _STLP_CSTDIO
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x15) && !defined (_STLP_DONT_POP_HEADER_ID)
ifndef _STLP_INTERNAL_CSTDIO
#include <stl/_cstdio.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x15) || defined (_STLP_DONT_POP_HEADER_ID) || defined
(_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cstdio>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cstdio)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x15)
if !defined (_STLP_DONT_POP_HEADER_ID)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#else
#undef _STLP_DONT_POP_HEADER_ID
#endif

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/user_config.h

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#ifndef _STLP_DEQUE

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x22
#include <stl/_prolog.h>
#define _STLP_DEQUE
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x22)
#include <stl/_deque.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x22) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <deque>
#else
#include _STLP_NATIVE_HEADER(deque)
#endif
#endif

#ifdef _STLP_NATIVE_HEADER(deque)
#undef _STLP_NATIVE_HEADER(deque)
#endif

#endif /* _STLP_DEQUE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/_windows.h

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*
*/

#ifndef _STLP_ISTREAM

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1036
#include <stl/_prolog.h>
define _STLP_ISTREAM
#endif
#endif

#include <stl/iostreams.h>

#define _STLP_NO_IOSTREAMS 0
#define _STLP_IMPORT_VENDOR_STD 1

#if (_STLP_OUTERMOST_HEADER_ID == 0x1036) &&
!defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/iostreams.h>
#endif
# ifndef _STLP_INTERNAL_ISTREAM
# include <stl/_istream.h>
# endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x1036) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <istream>
# else
# include _STLP_NATIVE_HEADER(istream)
# endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x1036)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_ISTREAM */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/istream
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//***********************************************************************************
test_hash_map.cpp

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 */

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_hash_fun.h

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 */

#ifndef _STLP_CSETJMP

#ifndef_STLP_CSETJMP
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 */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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/*
 *
#define _STLP_CWCTYPE
*/

#ifndef _STLP_CWCTYPE

#ifndef _STLP_OUTERMOST_HEADER_ID
 # define _STLP_OUTERMOST_HEADER_ID 0x121
 # define _STLP_CWCTYPE
 # include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x121)
 # ifndef _STLP_INTERNAL_CWCTYPE
 # include <stl/_cwctype.h>
 # endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x121) || defined (_STLP_IMPORT_VENDOR_STD)
 # if defined (_STLP_HAS_INCLUDE_NEXT)
 # include_next <cwctype>
 # else
 # include _STLP_NATIVE_CPP_C_HEADER(cwctype)
 # endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x121)
 # include <stl/_epilog.h>
 # undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CWCTYPE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cwctype
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/***********************************************************************************
random_number.cpp
***********************************************************************************

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 *
 */

#ifndef _STLP_CSTRING
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x117
#define _STLP_CSTRING
#include <stl/_prolog.h>
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x117)
#ifndef _STLP_INTERNAL_CSTRING
#include <stl/_cstring.h>
#endif
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x117) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cstring>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cstring)
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x117)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CSTRING */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstring
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TestClass.h

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SUMMARY: TestClass simulates a class that uses resources. It is designed to
cause exceptions when it is constructed or copied.

***********************************************************************************/

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/TestClass.h
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_range_errors.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_range_errors.c
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*/

#ifndef _STLP_SET
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x55
#include <stl/_prolog.h>
#define _STLP_SET
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x55)
#ifndef _STLP_INTERNAL_SET_H
#include <stl/_set.h>
#endif
#endif

#ifdef _STLP_SET
#ifdef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTPUT_HEADER_ID 0x55
#include <stl/_prolog.h>
#define _STLP_SET
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x55)
#endif
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x55) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <set>
#  else
#    include _STLP_NATIVE_HEADER(set)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x55)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_SET */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/set
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 */

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/file_reporter.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/test_main.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/cppunit_mini.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/cppunit_proxy.h
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 */

#ifndef _STLP_QUEUE

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x53
#include <stl/_prolog.h>
#define _STLP_QUEUE
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x53)
#ifndef _STLP_INTERNAL_QUEUE_H
#include <stl/_queue.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x53) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <queue>
#else
#include _STLP_NATIVE_HEADER(queue)
#endif
#endif

#endif

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#if (_STLP_OUTERMOST_HEADER_ID == 0x53)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_QUEUE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/queue
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 *
 * Modified CRP 7/10/00 for improved conformance / efficiency on insert_unique /
 * insert_equal with valid hint -- efficiency is improved all around, and it is
 * should now be standard conforming for complexity on insert point immediately
 * after hint (amortized constant time).
 *
 */

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/pointers/_set.h

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2-1-tar-gz/STLport-5.2.1/stl/_csetjmp.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2-1-tar-gz/STLport-5.2.1/stl/_cwchar.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2-1-tar-gz/STLport-5.2.1/stl/_cwctype.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2-1-tar-gz/STLport-5.2.1/stl/_csetjmp.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2-1-tar-gz/STLport-5.2.1/stl/_cwchar.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2-1-tar-gz/STLport-5.2.1/stl/_cwctype.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2-1-tar-gz/STLport-5.2.1/stl/_csetjmp.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2-1-tar-gz/STLport-5.2.1/stl/_cmath.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2-1-tar-gz/STLport-5.2.1/stl/_cstring.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2-1-tar-gz/STLport-5.2.1/stl/_csetjmp.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2-1-tar-gz/STLport-5.2.1/stl/_cstdlib.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ostream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/math.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iostream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iostream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/math.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stdarg.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iostream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ostream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/string.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl_new.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/wchar.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/port/csignal.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/port/ctime.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/port/setjmp.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/port/config/stl_confix.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/port/istream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/port/_ctype.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/port/float.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/port/ios.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/port/wctype.h

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/* Boris : simulation technique is used here according to Adobe Open Source License Version 1.0.
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* Authors: Mat Marcus and Jesse Jones
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* 
*/

#ifndef _STLP_CISO646
#define _STLP_CISO646

#ifndef _STLP_OUTERMOST_HEADER_ID
#  define _STLP_OUTERMOST_HEADER_ID 0x107
#  include <stl/_prolog.h>
#endif

#endif _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x107
# include <stl/_prolog.h>
#endif
#if !_defined(_STLP_WCE_EVC3) && !_defined(_BORLANDC__)
# if defined (_STLP_USE_NEW_C_HEADERS)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <ciso646>
#  else
#    include _STLP_NATIVE_CPP_C_HEADER(ciso646)
#  endif
# else
#  include <iso646.h>
# endif /* _STLP_USE_NEW_C_HEADERS */
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x107 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_CISO646 */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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 */

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x103
#include <stl/_prolog.h>
#endif /* _STLP_CISO646 */
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 */
// This header exists solely for portability. Normally it just includes
// the native header <exception>.

#ifndef _STLP_EXCEPTION

#ifndef _STLP_OUTERMOST_HEADER_ID
#include <stl/_prolog.h>
#endif

#ifndef _STLP_DONT_POP_HEADER_ID
#define _STLP_DONT_POP_HEADER_ID
#endif

#ifndef _STLP_INTERNAL_EXCEPTION
#include <stl/_exception.h>
#endif

#ifndef _STLP_IMPORT_VENDOR_STD
/* If we are here it means that we are in an include called
* from the native lib which means that we can simply forward this
* call to the native exception header:
*/
#endif

#ifndef _STLP_DONT_POP_HEADER_ID
#include <stl/_epilog.h>
#endif

#define _STLP_OUTERMOST_HEADER_ID 0x423
#define _STLP_DONT_POP_HEADER_ID
#define _STLP_EXCEPTION
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x423) && !defined (_STLP_DONT_POP_HEADER_ID)
#ifndef _STLP_INTERNAL_EXCEPTION
#include <stl/_exception.h>
#endif
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID || defined (_STLP_DONT_POP_HEADER_ID) || defined
(_STLP_IMPORT_VENDOR_STD)
/* If we are here it means that we are in an include called
* from the native lib which means that we can simply forward this
* call to the native exception header:
*/
#endif

#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <exception>
#else
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x423) || defined (_STLP_DONT_POP_HEADER_ID) || defined
(_STLP_IMPORT_VENDOR_STD)
/* If we are here it means that we are in an include called
* from the native lib which means that we can simply forward this
* call to the native exception header:
*/
#endif

#endif /* _STLP_EXCEPTION */
This directory contains the STLport-5.0 release.

What's inside:

README - this file
INSTALL - installation instructions

bin - installation directory for STLport unit tests;
      it may contain more subdirs, if you use
      crosscompilation

build/lib - build directory for STLport library (if you use
           STLport iostreams and/or locale only)

build/test/unit - build directory for regression (unit) tests

build/test/eh - build directory for exception handling tests

stlport - main STLport include directory

src - source for iostreams implementation and other parts
     that aren't pure template code

lib - installation directory for STLport library (if you
     use STLport iostreams and/or locale only);
     it may contain more subdirs, if you use
     crosscompilation

test/unit - unit (regression) tests

test/eh - exception handling test using STLport iostreams

etc - miscellaneous files (ChangeLog, TODO, scripts, etc.)

GETTING STLPORT

To download the latest version of STLport, please be sure to visit
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/-------------------------------------------------------------------------------
test_bit_vector.cpp

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 */

#ifndef _STLP_SLIST
#define _STLP_SLIST

#ifndef _STLP_OUTERMOST_HEADER_ID
/* Comment following if you want to use the slist container even if you ask for
 * no extension.
 */

#include <stl/_slist.h>

#pragma once

/* Comment following if you want to use the slist container even if you ask for
 * no extension.
 */

#include <stl/_epilog.h>

#undef _STLP_OUTERMOST_HEADER_ID

#if (_STLP_OUTERMOST_HEADER_ID == 0x58)
*/

#include <stl/_prolog.h>

#endif /* _STLP_SLIST */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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Main.cpp

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 */

// This header defines classes basic_stringbuf, basic_istringstream,
// basic_ostringstream, and basic_stringstream. These classes
// represent streamsbufs and streams whose sources or destinations are
// C++ strings.

#ifndef _STLP_SSTREAM
  #ifndef _STLP_OUTERMOST_HEADER_ID
    # define _STLP_OUTERMOST_HEADER_ID 0x1059
    # include <stl/_prolog.h>
    # define _STLP_SSTREAM
  #endif

  #if (_STLP_OUTERMOST_HEADER_ID == 0x1059) && !((defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
    # include <stl/_ioserr.h>
  
  # ifndef _STLP_INTERNAL_SSTREAM
    # include <stl/_sstream.h>
  # endif
  #endif

  #if (_STLP_OUTERMOST_HEADER_ID != 0x1059) || defined (_STLP_IMPORT_VENDOR_STD)
    # if defined (_STLP_HAS_INCLUDE_NEXT)
      # include_next <sstream>
    # else
      # include _STLP_NATIVE_HEADER(sstream)
    # endif
  #endif

  #if (_STLP_OUTERMOST_HEADER_ID == 0x1059)
    # include <stl/_epilog.h>
    # undef _STLP_OUTERMOST_HEADER_ID
  #endif

  #endif /* _STLP_SSTREAM */

// Local Variables:
// mode:C++
// End:

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*/

#ifndef _STLP_ALGORITHM
#endif
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1
#include <stl/_prolog.h>
#define _STLP_ALGORITHM
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1)
#ifndef _STLP_INTERNAL_CSTDIO
// remove() conflicts, <cstdio> should always go first
#include <stl/_cstdio.h>
#endif
#ifndef _STLP_INTERNAL_ALGO_H
#include <stl/_algo.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <algorithm>
#else
#include _STLP_NATIVE_HEADER(algorithm)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1 )
#include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_ALGORITHM */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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 */

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 */

#ifndef _STLP_CSIGNAL
#ifndef _STLP_OUTERMOST_HEADER_ID
  #define _STLP_OUTERMOST_HEADER_ID 0x112
#define _STLP_CSIGNAL
#include <stl/_prolog.h>
#endif
#endif

#define _STLP_OUTERMOST_HEADER_ID
#define _STLP_CSIGNAL
#define _STLP_CSIGNAL
#include <stl/_prolog.h>
#endif

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```cpp
#include <stl/port.h>
#include <stl/signal.h>
#include <stl/epilog.h>

// Local Variables:
// mode:C++
// End:

Found in path(s):
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********************************************************************

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_rope.cpp
```
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/test_push_back.h

Interface for the test_push_back class

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/test_hash_set.cpp

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Quick start.

GNU Make (Linux, OpenBSD, FreeBSD, CygWin, etc.), with gcc:
make -f gcc.mak depend
make -f gcc.mak install

GNU Make (SunOS), with SunPro CC:

make -f CC.mak depend
make -f CC.mak install

Microsoft NMAKE (MS Windows), with VC6:

nmake /fmsvc.mak install

Make system goals.

- all source files declared in one place (for all platforms and compilers); the same is for base library (application) name and version.
- derive object filenames from source filenames in make system
- source files may be situated in few catalogs
- avoid information duplication, if possible
- support cross-compilation

Make targets.

release-static

build STLport as static library

dbg-static

build STLport as static library (with debug information)

stldbg-static

build STLport as static library (STLP_DEBUG mode, with debug information)

release-shared

build STLport as dynamic (shared) library

dbg-shared

STLport as dynamic (shared) library (with debug information)

stldbg-shared
build STLport as dynamic (shared) library (STLP_DEBUG mode, with
debug information)

all (default)

cumulative target for release,dbg,stldbg -shared on Unix-like platforms
and plus release,dbg,stldbg -static on Windows.

depend

create dependency files (for performance reasons dependency not created
during compilation process); this target absent for MS NMAKE (due to pure
scripting opportunities)

install-release-shared
install-dbg-shared
install-stldbg-shared
install-release-static
install-dbg-static
install-stldbg-static

build and install appropriate libraries and related files, into
'STLport/lib' and 'STLport/bin' (../../lib, relative position of this file)

install

cumulative target for install-*-shared on Unix-like platforms and
install-*.-* on Windows.

clean

remove all intermediate files

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/lib/README

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*/

#ifndef _STLP_IOS

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1032
#define _STLP_IOS
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1032) && !
#define _STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD)
#include <stl/_ioserr.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1032) || defined (_STLP_IMPORT_VENDOR_STD)
#else
#include _STLP_NATIVE_HEADER(ios)
#endif

#endif /* _STLP_IOS */

// Local Variables:
// mode:C++
// End:

Found in path(s):
*/opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ios
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SortClass.h

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SUMMARY: A class designed to test operations that compares objects. All
comparisons on SortClass may fail. Also records its own address for
the sake of testing the stability of sorting algorithms.

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*
*/

#ifndef _STLP_CTIME
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x118
#include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x118) && ! defined (_STLP_DONT_POP_HEADER_ID)
#define _STLP_DONT_POP_HEADER_ID
#define _STLP_CTIME
#endif

ifndef _STLP_CTIME
ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x118
#define _STLP_DONT_POP_HEADER_ID
#endif
#endif
#define _STLP_CTIME
#define _STLP_DONT_POP_HEADER_ID
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x118) && !defined (_STLP_DONT_POP_HEADER_ID)
# ifndef _STLP_INTERNAL_CTIME
#    include <stl/_ctime.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x118) || defined (_STLP_DONT_POP_HEADER_ID) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <ctime>
#  else
#    include _STLP_NATIVE_CPP_C_HEADER(ctime)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x118)
#  if !defined (_STLP_DONT_POP_HEADER_ID)
#    include <stl/_epilog.h>
#    undef _STLP_OUTERMOST_HEADER_ID
#  else
#    undef _STLP_DONT_POP_HEADER_ID
#  endif
#endif
#endif /* _STLP_CTIME */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ctime
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* */

#ifndef _STLP_IOSFWD

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x1034
# include <stl/_prolog.h>
# define _STLP_IOSFWD
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1034) && !(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
# include <stl/_ioserr.h>

#ifndef _STLP_INTERNAL_IOSFWD
# include <stl/_iosfwd.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1034) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <iosfwd>
# else
# include _STLP_NATIVE_HEADER(iosfwd)
#endif
#endif
#endif /* _STLP_IOSFWD */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iosfwd
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test_list.cpp

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* /

#ifndef _STLP_CFLOAT
#define _STLP_CFLOAT

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x106
#include <stl/_prolog.h>
#endif

#endif

// Borland defines some implementation constants in std:: namespace,
// we do not want to import them.
#if defined (_STLP_USE_NEW_C_HEADERS) && !defined (__BORLANDC__)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cfloat>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cfloat)
#endif
#else
#endif
# include <float.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x106 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CFLOAT */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cfloat
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 PREFIX.h

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SUMMARY: Configuration #defines for STL EH test suite

**********************************************************************************

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/PREFIX.h
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Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/_native_headers.h
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version.

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/etc/ChangeLog-5.1
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*
*/

/* Default values based on C++ Standard 22.2.1.
* Under Windows the localisation implementation take care of mapping its
* mask values to those internal values. For other platforms without real
* localization support we are free to use the most suitable values.*/

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/c_locale.h
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* */

#ifndef _STLP_VALARRAY

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x76
#include <stl/_prolog.h>
#define _STLP_VALARRAY
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x76)
#include <stl/_valarray.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x76) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <valarray>
#else
#include _STLP_NATIVE_HEADER(valarray)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x76)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_VALARRAY */

// Local Variables:
// mode:C++
// End:
Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/valarray
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Tests.h
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SUMMARY: Declarations of all of the tests in the exception test suite.

***********************************************************************************/

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* */

#ifndef _STLP_STDEXCEPT
#endif

#ifdef (_STLP_OUTERMOST_HEADER_ID)


# define _STLP_OUTERMOST_HEADER_ID 0x63
# include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x63) && !defined (_STLP_DONT_POP_HEADER_ID)
# define _STLP_DONT_POP_HEADER_ID
# define _STLP_STDEXCEPT
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x63)
# ifndef _STLP_INTERNAL_STDEXCEPT
# include <stl/_stdexcept.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x63) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <stdexcept>
# else
# include _STLP_NATIVE_HEADER(stdexcept)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x63)
# if !defined (_STLP_DONT_POP_HEADER_ID)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
# else
# undef _STLP_DONT_POP_HEADER_ID
# endif
#endif /* _STLP_STDEXCEPT */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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#ifndef _STLP_STACK

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x60
#include <stl/_prolog.h>
define _STLP_STACK
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x60)
#endif
#endif

#ifndef _STLP_INTERNAL_STACK_H
#include <stl/_stack.h>
define _STLP_STACK
#endif

#define _STLP_STACK

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x60
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x60) || defined (_STLP_IMPORT_VENDOR_STD)
#else
#endif

#ifndef _STLP_INTERNAL_STACK_H
#include <stl/_epilog.h>
define _STLP_STACK
#endif

// Local Variables:
// mode:C++
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* *
*
#ifndef _STLP_BITSET

// This implementation of bitset<> has a second template parameter,
// _WordT, which defaults to unsigned long. *YOU SHOULD NOT USE
// THIS FEATURE*. It is experimental, and it may be removed in
// future releases.

// A bitset of size N, using words of type _WordT, will have
// N % (sizeof(_WordT) * CHAR_BIT) unused bits. (They are the high-
// order bits in the highest word.) It is a class invariant
// of class bitset<> that those unused bits are always zero.

// Most of the actual code isn't contained in bitset<> itself, but in the
// base class _Base_bitset. The base class works with whole words, not with
// individual bits. This allows us to specialize _Base_bitset for the
// important special case where the bitset is only a single word.

// The C++ standard does not define the precise semantics of operator[].
// In this implementation the const version of operator[] is equivalent
// to test(), except that it does no range checking. The non-const version
// returns a reference to a bit, again without doing any range checking.

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x2
# include <stl/_prolog.h>
# define _STLP_INTERNAL_BITSET
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x2)
# ifndef _STLP_INTERNAL_BITSET
#    include <stl/_bitset.h>
#  endif
#endif

#endif

#include "stl/_prolog.h"
# define _STLP_INTERNAL_BITSET
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x2) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include <bitset>
#  else
#    include _STLP_NATIVE_HEADER(bitset)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x2 )
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_BITSET */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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  *  
  */

#ifndef _STLP_IOMANIP

#ifndef _STLP_OUTERMOST_HEADER_ID
#  define _STLP_OUTERMOST_HEADER_ID
#  include <stl/_prolog.h>
#  define _STLP_IOMANIP
#endif

#endif /* _STLP_IOMANIP */
# if (_STLP_OUTERMOST_HEADER_ID == 0x1030) && \\
!defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
# include <stl/ioserr.h>

# ifndef _STLP_INTERNAL_IOMANIP
# include <stl/iomanip.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1030) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <iomanip>
#else
# include _STLP_NATIVE_HEADER(iomanip)
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x1030)
# include <stl/epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_IOMANIP */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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 */
#ifndef _STLP_NEW_HEADER

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x447
#define _STLP_NEW_HEADER
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x447)
#include <stl/_new.h>
#endif

#endif /* _STLP_NEW */

// Local Variables:
// mode:C++
// End:

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*/

// This header defines classes basic_filebuf, basic_ifstream,
// basic_ofstream, and basic_fstream. These classes represent
// streambufs and streams whose sources or destinations are files.

#ifndef _STLP_FSTREAM
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1025
#include <stl/_prolog.h>
#define _STLP_FSTREAM
#if defined (__DMC__) && defined (_DLL)
#define _STLP_CLASS_IMPORT_DECLSPEC __declspec(dllimport)
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x1025) &&
!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/_ioserr.h>
#ifndef _STLP_INTERNAL_FSTREAM_H
#include <stl/_fstream.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x1025) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <fstream>
#else
#include _STLP_NATIVE_HEADER(fstream)
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x1025)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#if defined (__DMC__) && defined (_DLL)
#undef _STLP_CLASS_IMPORT_DECLSPEC
#endif
#endif
// Local Variables:
// mode:C++
// End:

Found in path(s):
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 */

#ifndef _STLP_PTHREAD_ALLOC
#define _STLP_PTHREAD_ALLOC

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x52
#include <stl/_prolog.h>
#endif

#ifndef _STLP_PRAGMA_ONCE
#pragma once
#endif
# include <stl/_pthread_alloc.h>

# if (_STLP_OUTERMOST_HEADER_ID == 0x52)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
# endif

#endif /* _STLP_PTHREAD_ALLOC */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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/umd/examples/test_insert.h

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/_system.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/stl_mycomp.h

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/*******************************************************************************

TestController.h

SUMMARY: An "faux-singleton" object to encapsulate a hodgepodge of state and
functionality relating to the test suite. Probably should be broken
into smaller pieces.

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/CC.mak
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// version.

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#ifndef _STLP_CERRNO
#define _STLP_CERRNO
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#ifdef _STLP_OUTERMOST_HEADER_ID
#endif

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=================================================================
STLport README for Microsoft Visual C++ compilers.
=================================================================

by: Francois Dumont, dums@stlport.com, last edited 08/02/2005

============
Introduction
============
This document describes how STLport can be compiled and used with Microsoft
Visual C++ 6 SP5. It can also be used for the MSVC++ family.

For any further comments or question visit STLport mailing lists
http://stlport.sourceforge.net/Maillists.shtml or forums
https://sourceforge.net/forum/?group_id=146814

============
Prerequisites
============
To build and use STLport you will need following tools and libraries:
- Microsoft Visual C++ 6.0 with at least Service Pack 5 or any higher
version.

============
Configuring STLport
============
In a console window go to the STLport build/lib folder. Run

configure --help

This command will present you the different available build options. Just follow
the instructions to set STLport configuration according your needs. The only
mandatory configuration is to declare what is the compiler you are going to
use, for MSVC 6 it is:

countain -c msvc6

================
Building STLport
================
This is a step by step description of the actions to take in order to have the STLport library built:

1. Open a console window. You can get it executing cmd or command depending on your Windows OS.

2. Go to MSVC++ Bin directory with a default MSVC6 install it is
cd "C:\Program Files\Microsoft Visual Studio\VC98\Bin"

3. Run the vcvars32.bat script. This sets the environment variables required to have the MSVC++ compiler run during the build process. The most important one is the PATH variable so that you can call the cl.exe command which is the MSVC++ command line compiler. [You may omit this step, if you chose 'Install paths to access command-line tools' during Microsoft Visual Studio installation procedure.]

4. Go to the STLport build/lib folder:
cd C:\STLport\build\lib

5. Run the following command:
nmake /fmsvc.mak install

nmake is the make utility from Microsoft. /f is an nmake option telling it which make file script to use. You have of course to grant the closer make file to your effective compiler, msvc.mak in our case.

Once the command returns, you will have all the necessary libraries within the STLport lib folder. For a description of the generated libraries check the README file within the src folder.

==============
Testing STLport
==============
You can use the unit tests to verify STLport behaves correctly. Change into STLports 'build/test/unit' folder and type:

nmake /fmsvc.mak install

Once the unit test is built you just need to run it. They can be found within the STLport bin folder.
Using STLport

Adjust your include and link paths in MSVC IDE (in 'Tools -> Options -> Directories' for MSVC6 IDE). In the include files add the path to STLport's 'stlport' folder. Make sure it is the first directory listed there. Add STLport's 'lib' folder for the library files (order of paths doesn't matter here).

There are some preprocessor defines that control usage of the STLport in msvc projects:

If you don't want to use the iostreams part of the library, you can specify the define _STLP_NO_IOSTREAMS. In this mode there is no need to link against the library.

STLport uses automatic linking to find the proper .lib file. If you want to see what import library STLport is going to use, define _STLP_VERBOSΕ_AUTO_LINK. When not using automatic linking (by specifying _STLP_DONT_USE_AUTO_LINK), you have to specify the proper .lib file in the Project Settings, on the "link" tab. The .lib names have the following syntax:

stlport[d][stld][_x,_static,_statix].<STLport-Version>.lib

d : debug build
std: debug build with _STLP_DEBUG (STL safe) mode
_x: Build of STLport as a dll but statically link to the native runtime.
_static : build of a static library
_statix : build of a static library link dynamically to the native runtime.

Examples:

stlport_static.5.0.lib - static release version, Version 5.0.0
stlportd.5.0.lib - dll debug version, Version 5.0.0

When using STLport together with MFC, be sure to include the MFC headers first, then include STLport headers, e.g. in your Stdafx.h. This way STLport correctly recognizes MFC usage. You also can define the macro _STLP_USE_MFC, either in your project settings or in stlport/stl/config/user_config.h.

In order to enhance debugging with STLport you can optionally add the content of the etc/autoexp.dat file in the autoexp.dat file coming with your Visual Studio install.

Now you should be ready to use STLport.

Known issues

Known issues
1. InterlockedIncrement

If you experiment trouble with the InterlockedIncrement Win32 API function like the following message:

C:\Program Files\Microsoft SDK\Include\\winbase.h(1392) : error C2733: second C linkage of overloaded function 'InterlockedIncrement' not allowed
C:\Program Files\Microsoft SDK\Include\\winbase.h(1390) : see declaration of 'InterlockedIncrement'

It means that you are using the new Microsoft platform SDK. There is no way to known it from STLport code so you have to signal it in the stlport/stl/config/user_config.h file (uncomment _STLP_NEW_PLATFORM_SDK in this file).

2. Native C/C++ library headers location

If you experiment trouble with location of ctime and other Standard headers while building or using STLport you might be using the compiler coming with a platform SDK. If so please uncomment _STLP_USING_PLATFORM_SDK_COMPILER in stlport/stl/config/user_config.h. If it still do not find native headers you will perhaps need to change native headers relative path used by STLport. In this case use _STLP_NATIVE_INCLUDE_PATH and associated macro in stlport/stl/config/host.h.

4. C symbols in std namespace

The compiler of MSVC++ 6 has a bug when dealing with symbols existant in both the global namespace and symbols imported by a using-directive or a using-declaration - it will report an ambiguous call to an overloaded function (error C2668). Example:

```cpp
void function();
namespace ns {
    void function();
    // or:
    // using ::function;
}

using ns::function;
// or:
// using namespace ns;

void call() {
    function();
}
```

Since we anticipate that using-declarations or even using-directives are common use, STLport by default doesn't import or wrap functions that exist in both the global namespace and namespace std, in particular those are functions with C
origin like fopen() or abs(). Also, it defines additional overloads for functions like abs() (overloaded for int, long, float, double, long double) in the global namespace.

In order to make STLport include them in the std namespace, you can define the _STLP_DO_IMPORT_CSTD_FUNCTIONS macro. Doing so, you will have to explicitly scope all your functions calls like std::abs() though - otherwise you only get the global abs(int) from the C library.

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 */

#ifndef _STLP_LIMITS
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x39
#include <stl/_prolog.h>
define _STLP_LIMITS
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x39)
#ifndef _STLP_INTERNAL_LIMITS
#include <stl/_limits.h>
#endif
#define _STLP_LIMITS
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x39) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <limits>
#endif
#endif
# else
#   include _STLP_NATIVE_HEADER(limits)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x39)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_LIMITS */

// Local Variables:
// mode:C++
// End:

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test_vector.cpp

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test_assign_op.h

SUMMARY: Test functor template for assignment operators.

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* */

// WARNING: The classes defined in this header are DEPRECATED. This
// header is defined in section D.7.1 of the C++ standard, and it
// MAY BE REMOVED in a future standard revision. You should use the
// header <sstream> instead.

#ifndef _STLP_STRSTREAM
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1070
#include <stl/_prolog.h>
define _STLP_STRSTREAM
#endif
#endif
#elif (_STLP_OUTERMOST_HEADER_ID == 0x1070) &&
!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/_ioserr.h>
#endif
#endif
#endif /* _STLP_IMPORT_VENDOR_STD */
#endif /* _STLP_OUTERMOST_HEADER_ID != 0x1070 */
#ifndef _STLP_INTERNAL_STRSTREAM
#include <stl/_strstream.h>
#endif
#endif
#endif /* _STLP_STRSTREAM */

// Local Variables:
// mode:C++
// End:
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 */

#ifndef _STLP_CLOCALE

#ifndef _STLP_OUTERMOST_HEADER_ID
 # define _STLP_OUTERMOST_HEADER_ID 0x109
 # define _STLP_CLOCALE
 # include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x109)
 # ifndef _STLP_INTERNAL_CLOCALE
 # include <stl/_locale.h>
 # endif
 #endif

#else
 #if (_STLP_OUTERMOST_HEADER_ID != 0x109) || defined (_STLP_IMPORT_VENDOR_STD)
 # if defined (_STLP_HAS_INCLUDE_NEXT)
 # include_next <locale>
 # else
 # include _STLP_NATIVE_CPP_C_HEADER(locale)
 # endif
#endif

#endif /* _STLP_CLOCALE */
// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_numeric.h
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/type_manips.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_move_construct_fwk.h
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*/

#ifndef _STLP_UTILITY

#ifndef _STLP_OUTERMOST_HEADER_ID
    # define _STLP_OUTERMOST_HEADER_ID 0x75
    # include <stl/_prolog.h>
#else (_STLP_OUTERMOST_HEADER_ID == 0x75) && !defined (_STLP_DONT_POP_HEADER_ID)
    # define _STLP_DONT_POP_HEADER_ID
    # define _STLP_UTILITY
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x75) && !defined (_STLP_DONT_POP_HEADER_ID)
    ifndef _STLP_INTERNAL_PAIR_H
    # include <stl/pair.h>
    # endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x75) || defined (_STLP_DONT_POP_HEADER_ID) || defined
    (_STLP_IMPORT_VENDOR_STD)
    # if defined (_STLP_HAS_INCLUDE_NEXT)
    # include_next <utility>
    # else
    # include _STLP_NATIVE_HEADER(utility)
    # endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x75)
    # if !defined (_STLP_DONT_POP_HEADER_ID)
    # include <stl/_epilog.h>
    # undef _STLP_OUTERMOST_HEADER_ID
    # else

#    _STLP_DONT_POP_HEADER_ID
# endif
#endif
#endif /* _STLP_UTILITY */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/utility
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test_deque.cpp

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_deque.cpp
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* */

#ifndef _STLP_COMPLEX

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x10
#define _STLP_COMPLEX
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x10)
// This header declares the template class complex, as described in
// in the C++ Standard. Single-precision complex numbers
// are complex<float>, double-precision are complex<double>, and
// quad precision are complex<long double>.

// Note that the template class complex is declared within namespace
// std, as called for by the draft C++ standard
#ifdef _STLP_INTERNAL_COMPLEX
#include <stl/_complex.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x10) || defined (_STLP_IMPORT_VENDOR_STD)
  if defined (_STLP_HAS_INCLUDE_NEXT)
    include_next <complex>
  else
    include _STLP_NATIVE_HEADER(complex)
  endif
#endif
#endif /* _STLP_COMPLEX */

#endif /* _STLP_OUTERMOST/Header_ID */

// Local Variables:
// mode:C++
// End:

Found in path(s):
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/complex

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 */

#ifndef _STLP_CSTDARG
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x113
#define _STLP_CSTDARG
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x113)
#ifndef _STLP_INTERNAL_CSTDARG
#include <stl/_cstdarg.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x113) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cstdarg>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cstdarg)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x113 )
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CSTDARG */

// Local Variables:
// mode:C++
// End:
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 * 
 */
#endif _STLP_OSTREAM

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1050
#include <stl/_prolog.h>
#define _STLP_OSTREAM
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1050) && !defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD)
#include <stl/_ioserr.h>
#endif

#ifndef _STLP_INTERNAL_OSTREAM
#include <stl/_ostream.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1050) || defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <ostream>
#else
#include _STLP_NATIVE_HEADER(ostream)
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1050)
#include <stl/_epilog.h>
#endif
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_OSTREAM */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ostream
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl_/rope.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl_/slist.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl_/slist_base.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/allocators.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl_/alloc.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl_/alloc.c
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*/

#ifndef _STLP_CMATH

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x110
#include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x110) && !defined (_STLP_DONT_POP_HEADER_ID)
#define _STLP_DONT_POP_HEADER_ID
#define _STLP_CMATH
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x110) && !defined (_STLP_DONT_POP_HEADER_ID)
#ifndef _STLP_INTERNAL_CMATH
#include <stl/_cmath.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x110) || defined (_STLP_DONT_POP_HEADER_ID) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cmath>
#else
#include <stl/_epilog.h>
#endif
#endif

#ifndef _STLP_CMATH */
// Local Variables:
// mode:C++
// End:

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 */

#ifndef _STLP_CSTDDEF

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x114
#define _STLP_CSTDDEF
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x114)
#ifndef _STLP_INTERNAL_CSTDDEF
#include <stl/_cstddef.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x114) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cstddef>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cstddef)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x114 )
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif

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#endif

#endif /* _STLP_CSTDDEF */

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/unordered_set
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test_map.cpp

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 */

#ifndef _STLP_CCTYPE
#ifndef _STLP_OUTERMOST_HEADER_ID
#  define _STLP_OUTERMOST_HEADER_ID 0x104
#  define _STLP_CCTYPE
#  include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x104 )
#  ifndef _STLP_INTERNAL_CCTYPE
#    include <stl/_cctype.h>
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x104) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <cctype>
#  else
#    include _STLP_NATIVE_CPP_C_HEADER(cctype)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x104 )
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CCTYPE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/lock_free_slist.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/_threads.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/_string.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/_auto_ptr.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/memory
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_io.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_hash.h

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*/

#include <stl/_prolog.h>

#define _STLP_OUTERMOST_HEADER_ID
#define _STLP_LIST

#define _STLP_OUTERMOST_HEADER_ID 0x40
#include <stl/_prolog.h>
#define _STLP_LIST

#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x40)
# ifndef _STLP_INTERNAL_LIST_H
# include <stl/_list.h>
# endif
# endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x40) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <list>
# else
# include _STLP_NATIVE_HEADER(list)
# endif
# endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x40)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_LIST */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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 *
 */

#ifndef _STLP_TYPEINFO

#ifndef _STLP_OUTERMOST_HEADER_ID

#endif /* _STLP_TYPEINFO */

#ifndef _STLP_OUTERMOST_HEADER_ID

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```c
#define _STLP_OUTERMOST_HEADER_ID 0x473
#include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x473) && !defined (_STLP_DONT_POP_HEADER_ID)
#define _STLP_DONT_POP_HEADER_ID
#define _STLP_TYPEINFO
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x473) && !defined (_STLP_DONT_POP_HEADER_ID)
#ifndef _STLP_INTERNAL_TYPEINFO
#include <stl/_typeinfo.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x473) || defined (_STLP_DONT_POP_HEADER_ID) || defined
(_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <typeinfo>
#else
#include _STLP_NATIVE_CPP_RUNTIME_HEADER(typeinfo)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x473)
#if !defined (_STLP_DONT_POP_HEADER_ID)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#else
#undef _STLP_DONT_POP_HEADER_ID
#endif
#endif

// Local Variables:
// mode:C++
// End:

Found in path(s):
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*/

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/port/stl/boost_type_traits.h
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 *
*/

#ifndef _STLP_CSTDLIB

#ifndef _STLP_OUTERMOST_HEADER_ID

#define _STLP_OUTERMOST_HEADER_ID 0x116
#define _STLP_CSTDLIB

#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x116)
#ifndef _STLP_INTERNAL_CSTDLIB

#include <stl/_cstdlib.h>

#endif
#endif

#else defined (__GNUC__) && defined (__MINGW32__)
/* Native cstdlib includes stdlib.h using an include_next so STLport stdlib.h
 * is not used and the workaround in this file must be duplicated here
 * (see stdlib.h). */

#include "errno.h"
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x116)
#else defined (_STLP_INTERNAL_CSTDLIB)

#include <stl/_cstdlib.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x116) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <cstdlib>
#  else
#    include _STLP_NATIVE_CPP_C_HEADER(cstdlib)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x116)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_CSTDLIB */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstdlib

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/concept_checks.h

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 *
 */

#ifndef _STLP_MAP

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x43
# include <stl/_prolog.h>
# define _STLP_MAP
#endif

#ifdef (_STLP_OUTERMOST_HEADER_ID == 0x43)

Open Source Used In Cisco Unified Communication Manager 12.0.1.SU5 6300
# ifndef _STLP_INTERNAL_MAP_H
#  include <stl/_map.h>
# endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x43) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <map>
#  else
#    include _STLP_NATIVE_HEADER(map)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x43)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_MAP */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/map

1.510 libxcursor 1.1.14 2.1.el6
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor’s protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors’ reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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

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

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[This is the first released version of the Lesser GPL.  It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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it in new free programs; and that you are informed that you can do
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it. And you must show them these terms so they know their rights.

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there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
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any patent license obtained for a version of the library must be
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Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
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is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
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When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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That's all there is to it!
(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.
Dean Elsner wrote the original gas for vax. [more details?]

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

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

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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#endif
#endif /* !_COMPAT_POLL_H_ */
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* @version 3.0 (December 2000)
* 
* Optimised ANSI C code for the Rijndael cipher (now AES)
* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif

#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

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

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

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* !_BSD_WAITPID_H */
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 */
```

Found in path(s):
* `/opt/cola/permits/1136687857_1613859467.34/0/javax-inject-2-3-0-b10-sources-4-jar/javax/inject/Singleton.java`
* `/opt/cola/permits/1136687857_1613859467.34/0/javax-inject-2-3-0-b10-sources-4-jar/javax/inject/Scope.java`
* `/opt/cola/permits/1136687857_1613859467.34/0/javax-inject-2-3-0-b10-sources-4-jar/javax/inject/package-info.java`
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* `/opt/cola/permits/1136687857_1613859467.34/0/javax-inject-2-3-0-b10-sources-4-jar/javax/inject/Injections.java`
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* /opt/cola/permits/1136687857_1613859467.34/0/javax-inject-2-3-0-b10-sources-4-jar/pom.xml

1.527 apache-log4j 1.2.16

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Julian Seward, Cambridge, UK.
jseward@bzip.org
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On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

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testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
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with the Library, with the complete machine-readable "work that
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.537 jsp 2.2.FR

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# Jackson JSON processor

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

## Licensing

Jackson core and extension components may be licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

### 1.538 bash 4.1.2-48.el6

#### 1.538.1 Available under license:

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-2.1-4.89.tar.gz)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SIMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

> Hi. I snagged some of your bash functions from your home directory on
> the FSF machines (naughty, I know), and I was wondering if you'd let
> me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-2.1-4.89.tar.gz)
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

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

Hi. I'm the maintainer of bash (the GNU 'Bourne Again shell') for the FSF.

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

Chet Ramey
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Version 1.3, 3 November 2008

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```
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger
to work with bash-2.0. Does ORA have any problem with me distributing
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

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

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If such an object file uses only numerical parameters, data
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1.541 commons-beanutils 1.8.2

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1.542 xz 4.999.9 0.5.beta.20091007git.el6

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(For example, a function in a library to compute square roots has
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* lib/libcrypto/liblswcrypto/cryptodev.c 
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- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
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1.558 bouncy-castle 1.54
1.559 uclibc unknown

1.559.1 Available under license:

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Version 2.1, February 1999

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/_setjmp in setjmp.S */
/* setjmp in setjmp.S */

From gsf@research.att.com  Wed Mar  1 20:30:54 2006
Return-Path: <gsf@research.att.com>
X-Original-To: mps@bridge.intra
Delivered-To: mps@bridge.intra
Received: from localhost (localhost [127.0.0.1])
    by localhost (Postfix) with ESMTP id B8C814E4F
    for <mps@bridge.intra>; Wed,  1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
    by localhost (Postfix) with LMTP id C8C73794D
    for <mps@bridge.intra>; Wed,  1 Mar 2006 20:30:38 +0100 (CET)
X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000
you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
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using # comment style to be complete

let me know how it works with your libc
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On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
to download the needed files from the original site each time it is ran?
Thanks, Peter

--

Peter S. Mazinger <ps dot m at gmx dot net> ID: 0x5A5F059F2
Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
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Version 2, June 1991
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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5c7f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

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

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

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of
Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.
Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

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

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

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

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

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

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*/

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* /opt/cola/permits/1136044785_1613665011.12/0/slf4j-simple-1-7-24-sources-1-
  jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/1136044785_1613665011.12/0/slf4j-simple-1-7-24-sources-1-
  jar/org/slf4j/impl/SimpleLoggerFactory.java
* /opt/cola/permits/1136044785_1613665011.12/0/slf4j-simple-1-7-24-sources-1-
  jar/org/slf4j/impl/StaticLoggerBinder.java
* /opt/cola/permits/1136044785_1613665011.12/0/slf4j-simple-1-7-24-sources-1-
  jar/org/slf4j/impl/StaticMDCBinder.java
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Found in path(s):
* /opt/cola/permits/1136044785_1613665011.12/0/slf4j-simple-1-7-24-sources-1-
  jar/org/slf4j/impl/SimpleLogger.java
1.588 commons-io 1.3.2

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1.589 libcap 2.19

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

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

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

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

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

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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

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during execution displays copyright notices, you must include the
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
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uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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that the user who changes the contents of definitions files in the
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b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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c) If distribution of the work is made by offering access to copy
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specified materials from the same place.

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 */

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
  * http://www.hypermall.com/
  * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
  * interrupts us (except possibly for removal/insertion of the cable?)
  * 10/4/97 - began heavy inline documentation of the code. Corrected typos
  * and spelling mistakes.
  * 10/5/97 - added code to handle PHY interrupts, disable PHY on
  * loss of link, and correctly re-enable PHY when link is
  * re-established. (put back CFG_PHYIE)

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

* Linux driver for the IDT77201 NICStAR PCI ATM controller.
  * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
  * see init_nicstar() for PHY initialization to change this. This driver
  * expects the Linux ATM stack to support scatter-gather lists
  * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

* Implementing minimal-copy of received data:
  * IDT always receives data into a small buffer, then large buffers
  * as needed. This means that data must always be copied to create
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
  * Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
  * Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
  * 1) skb->destructor / skb->atm.recycle_buffer
     * combined, allow nicstar_free_rx_skb to be called to
     * recycle large data buffers
  * 2) skb_clone of received buffers
  * See nicstar_free_rx_skb and linearize_buffer for implementation
  * details.

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* M. Welsh, 6 July 1996
*
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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
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for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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1.598 linux-kernel 2.6.32

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

That's all there is to it!

Thanks go to the following people for patches and contributions:

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for the initial saa7146 driver and it's recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
... and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
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Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
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for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

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for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufty@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

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

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

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

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* @param apiKey
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  *
  * @return true if the operation succeeds false otherwise
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jar/com/google/code/facebookapi/FacebookSignatureUtil.java
* /opt/cola/permits/1126576570_1611717741.51/0/facebook-java-api-2-1-0-sources-jar/com/google/code/facebookapi/FeedImage.java
* /opt/cola/permits/1126576570_1611717741.51/0/facebook-java-api-2-1-0-sources-jar/com/google/code/facebookapi/ProfileField.java
* /opt/cola/permits/1126576570_1611717741.51/0/facebook-java-api-2-1-0-sources-jar/com/google/code/facebookapi/FacebookXmlRestClient.java
* /opt/cola/permits/1126576570_1611717741.51/0/facebook-java-api-2-1-0-sources-jar/com/google/code/facebookapi/PageProfileField.java
* /opt/cola/permits/1126576570_1611717741.51/0/facebook-java-api-2-1-0-sources-jar/com/google/code/facebookapi/MarketplaceListing.java
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* /opt/cola/permits/1126576570_1611717741.51/0/facebook-java-api-2-1-0-sources-jar/com/google/code/facebookapi/FacebookJaxbRestClient.java
* /opt/cola/permits/1126576570_1611717741.51/0/facebook-java-api-2-1-0-sources-jar/com/google/code/facebookapi/MarketListingStatus.java
1.616 e2fsprogs 1.41.12-22.el6

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+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
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Theodore Ts'o
23-June-2007

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1.617 tar 1.23-14.el6

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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

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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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Section 6 states terms for distribution of such executables.

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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

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1.642 stunnel 4.29-6.el6

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1.643 libx11 1.6.3 2.el6

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dv/xs/HexBinaryDV.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/DecimalDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/optiml/ElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/dom/DocumentImpl.java
*/
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/AttributesProxy.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DatatypeMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSDecimal.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSQName.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSComplexTypeDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SubstitutionGroupHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/QNameDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDComplexTypeTraverser.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAbstractTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java

jar/org/apache/xerces/parsers/XMLGrammarCachingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/ObjectFactory.java
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 */
/**
 * used to check the 3 constraints against each complex type
 * (should be each model group):
 * Unique Particle Attribution, Particle Derivation (Restriction),
 * Element Declarations Consistent.
 */

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLNamespaceBinder.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XInclude11TextReader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSConstants.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java
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  jar/org/apache/xerces/dom/DOMMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xni/grammars/XMLDTDDescription.java
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  jar/org/apache/xerces/xinclude/SecuritySupport.java
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  jar/org/apache/xml/serialize/SecuritySupport.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASObjectList.java
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jar/org/apache/xerces/dom3/as/DOMASException.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/DOMASBuilder.java
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  jar/org/apache/xerces/dom/AttributeMap.java
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  jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/ChildNode.java
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  jar/org/apache/xerces/util/NamespaceSupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/xs/ElementPSVImpl.java
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  jar/org/apache/xerces/impl/xpath/XPath.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/jaxp/DocumentBuilderFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dtd/models/CMAAny.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
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  jar/org/apache/xerces/util/SymbolTable.java
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  jar/org/apache/xml/serialize/EncodingInfo.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SynchronizedSymbolTable.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDocumentHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLAttributesImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SchemaSymbols.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDTDHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLString.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/AttributePSVImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLComponentManager.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLComponent.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/UCSReader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11NamespaceBinder.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLAttributes.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/DefaultValidationErrorHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarLoader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/DefaultJAXPError.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/DefaultJAXPError.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/JAXPError.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/DOMASBuilderImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarLoader.java
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 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDTDContentModelHandler.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java

 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ParserConfigurationSettings.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaException.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/EntityResolverWrapper.java
 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/NamespaceContext.java
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 * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMErrorImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/validation/ EntityState.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/BooleanDV.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractXMLDocumentParser.java
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  jar/org/apache/xerces/impl/xpath/regex/RegexParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dtd/XML11NSDocumentScannerImpl.java
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  jar/org/apache/xerces/impl/XMLEntityScanner.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/XMLScanner.java
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  jar/org/apache/xerces/impl/XMLDocumentFragmentScannerImpl.java
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  jar/org/apache/xerces/impl/XMLErrorReporter.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/wml/dom/WMLElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/wml/dom/WMLTemplateElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/html/dom/HTMLModElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/html/dom/HTMLQuoteElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/html/dom/HTMLTitleElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/html/dom/HTMLHeadingElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/wml/dom/WMLOptgroupElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/html/dom/HTMLFieldSetElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/wml/dom/WMLPrevElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/wml/dom/WMLElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/wml/dom/WMLTableCellElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/wml/dom/WMLPrevElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLParamElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFrameSetElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLOListElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLOptionElementImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyAtomicDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/ExternalSubsetResolver.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/PrecisionDecimalDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAnnotationInfo.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xml/XMLEntityDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/ByteListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11Configurable.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SAXMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/MalformedByteSequenceException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/Util/ByteListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xml/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSLoaderImpl.java

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jar/org/apache/xerces/dom/AttrImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/XMLDTDScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/dom/AttrNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/XSGroupDecl.java
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DOM Level 3 LS CR - Experimental.
Create a new `<code>LSParser</code>`. The newly constructed parser may
then be configured by means of its `<code>DOMConfiguration</code>` object, and used to parse documents by means of its `<code>parse</code>` method.

@param mode  The `<code>mode</code>` argument is either

  `<code>MODE_SYNCHRONOUS</code>` or `<code>MODE_ASYNCHRONOUS</code>`, if

  `<code>mode</code>` is `<code>MODE_SYNCHRONOUS</code>` then the

  `<code>LSParser</code>` that is created will operate in synchronous

  mode, if it's `<code>MODE_ASYNCHRONOUS</code>` then the

  `<code>LSParser</code>` that is created will operate in asynchronous

  mode.

@param schemaType  An absolute URI representing the type of the schema
language used during the load of a `<code>Document</code>` using the
newly created `<code>LSParser</code>`. Note that no lexical checking
is done on the absolute URI. In order to create a

  `<code>LSParser</code>` for any kind of schema types (i.e. the

  LSParser will be free to use any schema found), use the value

  `<code>null</code>`.

  `<p>Note:</b> For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-20010502'>XML Schema Part 1</a>]

  , applications must use the value

  `<code>"http://www.w3.org/2001/XMLSchema"</code>`. For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],

  applications must use the value

  `<code>"http://www.w3.org/TR/REC-xml"</code>`. Other Schema languages
are outside the scope of the W3C and therefore should recommend an
absolute URI in order to use this method.

@return  The newly created `<code>LSParser</code>` object. This

  `<code>LSParser</code>` is either synchronous or asynchronous

  depending on the value of the `<code>mode</code>` argument.

  `<p>Note:</b> By default, the newly created `<code>LSParser</code>`

  does not contain a `<code>DOMErrorHandler</code>`, i.e. the value of

the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>error-handler</a>" configuration parameter is `<code>null</code>`. However, implementations
may provide a default error handler at creation time. In that case,
the initial value of the `<code>error-handler</code>` configuration
parameter on the new created `<code>LSParser</code>` contains a
* reference to the default error handler.
  * @exception DOMException
  * NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
  * not supported.
  */

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
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  jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/xs/opti/DefaultText.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/parsers/BasicParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/xs/opti/TextImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/parsers/NonValidatingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xni/XMLLocator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSObject.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/impl/XSGrammarPool.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/impl/XSException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/AttributePSVI.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSLoader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSObject.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSMultiValueFacet.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/impl/XSGrammarPool.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/impl/XSException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/AttributePSVI.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSLoader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSObject.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSMultiValueFacet.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/impl/XSGrammarPool.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/impl/XSException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java
*/
jar/org/apache/xerces/util/SecurityManager.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/ElementPSVI.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAnnotation.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSInputList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamespaceItem.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamedMap.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamespaceItemList.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSTerm.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSObjectList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSImplementation.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/ItemPSVI.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/StringList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSTypeDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSModel.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xss/traversers/XSDocumentInfo.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParserForXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11DTDScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDTDLoader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/DOMSerializerImpl.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11DTDScannerImpl.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLIElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLStrongElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSelectElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTrElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDoElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDOMImplementation.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLMetaElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBuilder.java
*/
jar/org/apache/wml/WLElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WLOneventElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WLUElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WLPElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WLAElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTableElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLWmlElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLNoopElement.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/XML11Serializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/NMTOKENDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/Token.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xml/serialize/BaseMarkupSerializer.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ElementNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMStateSet.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NodeImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/TreeWalkerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/events/EventImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/Serializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammarBucket.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLAttributeDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ShadowedSymbolTable.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/IDREFDatatypeValidator.java
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```
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package org.eclipse.jetty.http;

import java.io.IOException;
import org.eclipse.jetty.io.Buffer;
import org.eclipse.jetty.io.Buffers;
import org.eclipse.jetty.io.ByteArrayBuffer;
import org.eclipse.jetty.io.EndPoint;
import org.eclipse.jetty.io.EofException;
import org.eclipse.jetty.io.View;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;

/* ------------------------------------------------------------- */

/**
 *
 * Currently this class uses a system parameter "jetty.direct.writers" to control
 * two optional writer to byte conversions. buffer.writers=true will probably be
 * faster, but will consume more memory. This option is just for testing and tuning.
 *
 */

public abstract class AbstractGenerator implements Generator
{

    private static final Logger LOG = Log.getLogger(AbstractGenerator.class);

    // states
    public final static int STATE_HEADER = 0;
    public final static int STATE_CONTENT = 2;
    public final static int STATE_FLUSHING = 3;
    public final static int STATE_END = 4;

    public static final byte[] NO_BYTES = {};

    // data

    protected final Buffers _buffers; // source of buffers
protected final EndPoint _endp;

protected int _state = STATE_HEADER;

protected int _status = 0;
protected int _version = HttpVersions.HTTP_1_1_ORDINAL;
protected Buffer _reason;
protected Buffer _method;
protected String _uri;

protected long _contentWritten = 0;
protected long _contentLength = HttpTokens.UNKNOWN_CONTENT;
protected boolean _last = false;
protected boolean _head = false;
protected boolean _noContent = false;
protected Boolean _persistent = null;

protected Buffer _header; // Buffer for HTTP header (and maybe small _content)
protected Buffer _buffer; // Buffer for copy of passed _content
protected Buffer _content; // Buffer passed to addContent
protected Buffer _date;

private boolean _sendServerVersion;

/* _ENGINE codes */

/* ---------------------------------------------------------------------- */
/**
 * Constructor.
 */
/* @param buffers buffer pool
 * @param io the end point
 */
public AbstractGenerator(Buffers buffers, EndPoint io)
{
    this._buffers = buffers;
    this._endp = io;
}

/* ---------------------------------------------------------------------- */
public abstract boolean isRequest();

/* ---------------------------------------------------------------------- */
public abstract boolean isResponse();

/* ---------------------------------------------------------------------- */
public boolean isOpen()
{
return _endp.isOpen();
}

/* --------------------------------------------------------------------------- */
public void reset()
{
    _state = STATE_HEADER;
    _status = 0;
    _version = HttpVersions.HTTP_1_1_ORDINAL;
    _reason = null;
    _last = false;
    _head = false;
    _noContent=false;
    _persistent = null;
    _contentWritten = 0;
    _contentLength = HttpTokens.UNKNOWN_CONTENT;
    _date = null;

    _content = null;
    _method=null;
}

/* --------------------------------------------------------------------------- */
public void returnBuffers()
{
    if (_buffer!=null && _buffer.length()==0)
    {
        _buffers.returnBuffer(_buffer);
        _buffer=null;
    }

    if (_header!=null && _header.length()==0)
    {
        _buffers.returnBuffer(_header);
        _header=null;
    }
}

/* --------------------------------------------------------------------------- */
public void resetBuffer()
{
    if(_state>=STATE_FLUSHING)
        throw new IllegalStateException("Flushed");

    _last = false;
    _persistent=null;
    _contentWritten = 0;
    _contentLength = HttpTokens.UNKNOWN_CONTENT;
_content=null;
if (_buffer!=null)
    _buffer.clear();
}

/**
 * @return Returns the contentBufferSize.
 */
public int getContentBufferSize()
{
    if (_buffer==null)
        _buffer=_buffers.getBuffer();
    return _buffer.capacity();
}

/**
 * @param contentBufferSize The contentBufferSize to set.
 */
public void increaseContentBufferSize(int contentBufferSize)
{
    if (_buffer==null)
        _buffer=_buffers.getBuffer();
    if (contentBufferSize > _buffer.capacity())
    {
        Buffer nb = _buffers.getBuffer(contentBufferSize);
        nb.put(_buffer);
        _buffers.returnBuffer(_buffer);
        _buffer = nb;
    }
}

public Buffer getUncheckedBuffer()
{
    return _buffer;
}

public boolean getSendServerVersion ()
{
    return _sendServerVersion;
}

public void setSendServerVersion (boolean sendServerVersion)
{
_sendServerVersion = sendServerVersion;
}

/* ----------------------------------------------- */
public int getState()
{
    return _state;
}

/* ----------------------------------------------- */
public boolean isState(int state)
{
    return _state == state;
}

/* ----------------------------------------------- */
public boolean isComplete()
{
    return _state == STATE_END;
}

/* ----------------------------------------------- */
public boolean isIdle()
{
    return _state == STATE_HEADER && _method==null && _status==0;
}

/* ----------------------------------------------- */
public boolean isCommitted()
{
    return _state != STATE_HEADER;
}

/* ----------------------------------------------- */
/**

* @return Returns the head.
* /

public boolean isHead()
{
    return _head;
}

/* ----------------------------------------------- */
public void setContentLength(long value)
{
    if (value<0)
        _contentLength=HttpTokens.UNKNOWN_CONTENT;
    else
_contentLength=value;
}

/* ------------------------------------------------------------- */
/**
* @param head The head to set.
*/
public void setHead(boolean head)
{
    _head = head;
}

/* ------------------------------------------------------------- */
/**
* @return <code>false</code> if the connection should be closed after a request has been read,
* <code>true</code> if it should be used for additional requests.
*/
public boolean isPersistent()
{
    return _persistent!=null
        ?_persistent.booleanValue()
        :(isRequest()?true:_version>HttpVersions.HTTP_1_0_ORDINAL);
}

/* ------------------------------------------------------------- */
public void setPersistent(boolean persistent)
{
    _persistent=persistent;
}

/* ------------------------------------------------------------- */
/**
* @param version The version of the client the response is being sent to (NB. Not the version
*            in the response, which is the version of the server).
*/
public void setVersion(int version)
{
    if (_state != STATE_HEADER)
        throw new IllegalStateException("STATE!=START "+_state);
    _version = version;
    if (_version==HttpVersions.HTTP_0_9_ORDINAL && _method!=null)
        _noContent=true;
}

/* ------------------------------------------------------------- */
public int getVersion()
{
    return _version;
}
public void setDate(Buffer timeStampBuffer)
{
    _date=timeStampBuffer;
}

public void setRequest(String method, String uri)
{
    if (method==null || HttpMethods.GET.equals(method))
    {
        _method=HttpMethods.GET_BUFFER;
    }
    else
    {
        _method=HttpMethods.CACHE.lookup(method);
    }
    _uri=uri;
    if (_version==HttpVersions.HTTP_0_9_ORDINAL)
    {
        _noContent=true;
    }
}

public void setResponse(int status, String reason)
{
    if (_state != STATE_HEADER) throw new IllegalStateException("STATE!=START");
    _method=null;
    _status = status;
    if (reason!=null)
    {
        int len=reason.length();
        // TODO don't hard code
        if (len>1024)
        {
            len=1024;
        }
        _reason=new ByteArrayBuffer(len);
        for (int i=0;i<len;i++)
        {
            char ch = reason.charAt(i);
            if (ch=='\r'||ch=='\n')
                _reason.put((byte)ch);
            else
                _reason.put((byte)ch);
        }
    }
}

else
    _reason.put((byte) ' ');
}
}

/**
 * Prepare buffer for unchecked writes.
 * Prepare the generator buffer to receive unchecked writes
 * @return the available space in the buffer.
 * @throws IOException
 */
public abstract int prepareUncheckedAddContent() throws IOException;

void uncheckedAddContent(int b)
{
    _buffer.put((byte)b);
}

public void completeUncheckedAddContent()
{
    if (_noContent)
    {
        if(_buffer!=null)
            _buffer.clear();
    } else
    {
        _contentWritten+=_buffer.length();
        if (_head)
            _buffer.clear();
    }
}

public boolean isBufferFull()
{
    if (_buffer != null && _buffer.space()==0)
    {
        if (_buffer.length()==0 && !_buffer.isImmutable())
            _buffer.compact();
        return _buffer.space()==0;
    }
    return _content!=null && _content.length()>0;
}
/* ------------------------------------------------------------- */
public boolean isWritten()
{
    return _contentWritten>0;
}
/* ------------------------------------------------------------- */
public boolean isAllContentWritten()
{
    return _contentLength>=0 && _contentWritten>=_contentLength;
}
/* ------------------------------------------------------------- */
public abstract void completeHeader(HttpFields fields, boolean allContentAdded) throws IOException;
/* ------------------------------------------------------------- */
/**
 * Complete the message.
 *
 * @throws IOException
 */
public void complete() throws IOException
{
    if (_state == STATE_HEADER)
    {
        throw new IllegalStateException("State==HEADER");
    }
    if (_contentLength >= 0 && _contentLength != _contentWritten && !_head)
    {
        if (LOG.isDebugEnabled())
            LOG.debug("ContentLength written=="+_contentWritten+" != contentLength=="+_contentLength);
        _persistent = false;
    }
}
/* ------------------------------------------------------------- */
public abstract int flushBuffer() throws IOException;
/* ------------------------------------------------------------- */
public void flush(long maxIdleTime) throws IOException
{
    // block until everything is flushed
    long now=System.currentTimeMillis();
    long end=now+maxIdleTime;
    Buffer content = _content;
}
Buffer buffer = _buffer;
if (content!=null && content.length()>0 || buffer!=null && buffer.length()>0 || isBufferFull())
{
    flushBuffer();

    while (now<end && (content!=null && content.length()>0 || buffer!=null && buffer.length()>0) && _endp.isOpen() && !_endp.isOutputShutdown())
    {
        blockForOutput(end-now);
        now = System.currentTimeMillis();
    }
}

/* ---------------------------------------------------------- */
/**
 * Utility method to send an error response. If the builder is not committed, this call is
 * equivalent to a setResponse, addContent and complete call.
 * @param code The error code
 * @param reason The error reason
 * @param content Contents of the error page
 * @param close True if the connection should be closed
 * @throws IOException if there is a problem flushing the response
 */
public void sendError(int code, String reason, String content, boolean close) throws IOException
{
    if (close)
        _persistent=false;
    if (isCommitted())
    {
        LOG.debug("sendError on committed: {} {}",code,reason);
    }
    else
    {
        LOG.debug("sendError: {} {}",code,reason);
        setResponse(code, reason);
        if (content != null)
            completeHeader(null, false);
            addContent(new View(new ByteArrayBuffer(content)), Generator.LAST);
        }
    else
    {
        completeHeader(null, true);
    }
    complete();
}
public long getContentWritten()
{
    return _contentWritten;
}

public void blockForOutput(long maxIdleTime) throws IOException
{
    if (_endp.isBlocking())
    {
        try
        {
            flushBuffer();
        }
        catch(IOException e)
        {
            _endp.close();
            throw e;
        }
    }
    else
    {
        if (!_endp.blockWritable(maxIdleTime))
        {
            _endp.close();
            throw new EofException("timeout");
        }

        flushBuffer();
    }
}

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1.661 asm 3.1

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

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

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao
## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

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

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

## Dependency rules

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

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

## Versioned libraries rules

$(RM) $@ && ln -s ${<F} $@

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

## Bind internal references

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

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

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

## End BSD-specific setup
1.670 fontconfig 2.8.0 5.el6

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

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
His is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

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Ext headers

GL/glext.h      Khronos
GL/glxext.h     Khronos
GL/wglext.h     Khronos
KHR/khrplatform.h Khronos

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*****************************************************************************

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

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## jQuery v3.4.1

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HISTORY -
Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Petersen (jep@mitiam.mitia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.ics.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (dctlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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

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

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1.692 websocketpp 0.7.0

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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

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md5.hpp is a reformulation of the md5.h and md5.c code from http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c to allow it to function as a component of a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2012 for the WebSocket++ project. The changes are released under the same license as the original (listed below)

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L. Peter Deutsch
ghost@aladdin.com

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1.694 HttpClient 4.3.2

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<li>Chris Viles <chris_viles@yahoo.com> - fix to SignatureSubpacket critical bit setting.</li>
<li>Pasi Eronen <Pasi.Eronen@nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>
<li>Lijun Liao <lijun.liao@rub.de> - performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream.</li>
<li>Maria Ivanova <maria.ivanova@604gmail.com> - support for tags > 30 in ASN.1 parsing.</li>
<li>Armin H&auml;rmerling <arminha@student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.</li>
<li>Marius Schilder <mschilder@604google.com> - main set of test vectors for Bleichenbacher's forgery attack.</li>
<li>Xavier Le Vourch <xavier@604britanrysoftware.com> - general code clean ups.</li>
<li>Thomas Dixon <reikomusha@604gmail.com> - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
<li>Frank Cornelis <info frankcornelis.be> - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim <很不错-isel.ip.pt> - initial implementation of RSA binding for signatures.</li>
<li>David Stacey <DStacey@604allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Martijn Brinkers <list@mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies <juliusdavies@604gmail.com> - additional modes and algorithm support in PEMReader.</li>
<li>Matthias g@604rtner.de> - GnuPG compatibility changes for PBFileProcessor.</li>
<li>Olga K&auml;thler <olga.kaethler@604hjp-consulting.com> - initial implementation of TeleTruST EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
<li>Germano Rizzo <germano.rizzo@604gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>N&amp;uuml;lia Mar&amp;uuml;acuta; <numa@604hotmail.com> - patch for alternate data type recognition in CMSSignedDataParser.</li>
<li>Janis Schuller <js@604tzi.de> - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet <mike@604samblanet.com> - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns <mstjohns@comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA.</li>
<li>Ramon Keller <ramon.keller@604gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Marc Nelson <mark@604nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov <eugene_gff@ukr.net> - mask fix to single byte read in TLInputStream.</li>
<li>Julien Pasquier <julienpasquier@604free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp <pknopp@604ntg.de> - fix for named curve recognition in ECOST key generation.</li>
<li>Jakub Gwozdz <gwozdziu@604rpg.pl> - addition of getTsa() to TimeStampTokenInfo.</li>
<li>Bartosz Malkowski <bmalkow@604tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
<li>Tal Yacobi <tal.yacobi@604ctavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi <massimiliano.ziccardi@604gmail.com.t> - support for counter signature reading in
CMS API, update for multiple counter signature attributes.  
Andrey Pavlenko <andrey.a.pavlenko@064gmail.com> - security manager patch for PKCS1Encoding property check.

Mike StJohns <mstjohns@064comcast.net> - updates to KeyPurposeId.

J Ross Nicoll <jrn@064jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson <mavricknz@064yahoo.com> - patch to constructor for CRMF CertSequence.

Gabriele Contini <gcontini@064hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEFs.

Roelof Naude <roelof.naude@064epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck <peck@064signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay <lemaymd@064lemaymd.com> - identified problem with EAX [#BJA-93].

Alex Dupre <sale@064FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].

Michael Schoene <michael@064sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larrañaga <ilarra@064ssl21sec.com> fix to default partial packet generation in BCPOPoutputStream.

Bob Kerns <bob.kerns@positscience.com> fix to hashCode for X509CertificateObject.

Stefan Meyer <stefan.meyer@064ewe.de> backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

Robert J. Moore <Robert.J.Moore@064allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.

Rui Hodai <rui@064po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic <emir.bucalovic@064mail.com> initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson <tobbe79@064gmail.com> initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick <bouncycastle_pfitz@064fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson <k.henrik.andersson@064gmail.com> addition of UniqueIssuerID to certificate generation.

Cagdas Cirit <cagdascirit@064gmail.com> subjectAlternativeName fix for x509CertStoreSelector.

Harakiri <harakiri_23@064ntts.co.jp> datahandler patch for attached parts in SMIME signatures.

Pedro Henriques <pmahenriques@064gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kimminger <job@064kimminger.de> verbose mode for ASN1Dump, support for DERExternal.

Richard Farr <rfarr.se@064gmail.com> initial SRP-6a implementation.

Thomas Castiglione <castiglione@064au.ibm.com> patch to encoding for CRMF OptionalValidity.

Elisabetta Romani <eromani@064sogei.it> patch for recognising multiple counter signatures.

Robin Lundgren <r737lundgren@064gmail.com> CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec <mormegil@064centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener <antener_a@064gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat <hsrawat@064yahoo.com> fix for BERConstructedOctetString.

Rolf Lindemann <lindemann@064trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].
coordinates for EC.

- Andy Neilson <Andy.Neilson@064quest.com> a further patches to deal with multiple providers and PEMReader.

- Ted Shaw <xiao.xj@064gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

- Eleriseth <Eleriseth@064WPECGLYbV1i8RL6Y7Vz12Lvd2EUfY99v3yNV3fWROG8.fms> speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

- Kenny Root <kenny@064the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

- Maarten Bodewes <maarten.bodewes@064gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

- Philip Clay <phil_b@064yahoo.com> Initial implementation of J-PAKE.

- Brian Carlstrom <bdc@064carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

- Samuel Lidén Borell <samuel@064primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder

- Sergio Demian Lerner <sergiolerner@064certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.

- Tim Whittington <Tim.Whittington@064orionhealth.com> patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Nokeon and CAST5 in the provider, exception testing for CTS, optimisations for CMC, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.

- Marcus Lundblad <marcus.lundblad@064primekey.se> patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

- Andrey Zhzhin <zhozhin@064xm.ru> patch for override of TSP SignerInfo attributes.

- Sergey Tiunov <s5555d@064gmail.com> initial cut of DVCS classes.

- Damian Kolasa <fatfredyy@064gmail.com> ASN1Sequence patch for class cast issue in X9Curve.

- Ash Hughes <ashley.hughes@064blueyonder.co.uk> patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

- Daniel Hirscher <dev@064daniel-hirscher.de> patch to support parsing of explicit EC parameters in PEM files.

- Daniele Ricci <daniele.athome@064gmail.com> initial implementation of EC keys for OpenPGP and RFC6637 support.

- Matti Aarnio <matti.aarnio@064methics.fi> tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.

- Babak Najafi <bnajafi@064akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.

- Eric M&uuml;ller <eric.mueller@064sage.de> additional standard algorithm name lookups in JcaPEMKeyConverter.

- Mathias Herberts <Mathias.Herbets@064gmail.com> fix to inOff usage in RFC3394WrapEngine.

- Daniil Ivanov <daniil.ivanov@064gmail.com> addition of provider support for GOST HMAC SecretKeyFactory.
<li>Daniele Grasso <daniele.grasso86&#064gmail.com> contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin <cindrhc&#064gmail.com> patch to reconstruction of EC keys from PrivateKeyInfo objects in provider classes.</li>
<li>Arnis Tartu <arnis&#064ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>AxelVDB <axel-vdb&#064riseup.net> initial implementation of Shacal2.</li>
<li>Roberto Tyley <> further work on completing gradle build.</li>
<li>Waldemar Dick <wdick&#064devmue.de> code improvement in x500 ASN.1 package.</li>
<li>Sid Steward <sid.steward&#064pdflabs.com> code improvements to ASN1Boolean.</li>
<li>Alex Klyubin <klyubin&#064google.com> AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett <gsoc.student&#064gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter <andreas.reiter&#064iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller <kieran.miller&#064gmail.com> initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehl <ehli&#064arago.de> Additional support for BSI plain ECDSA in the provider.</li>
<li>Daniel Heldt <Daniel.Heldt&#064cryptovision.com> Initial support for encodable state message digests.</li>
<li>Robert Bushman <bouncycastle&#064traxel.com> Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts <aarts&#064riseup.net> updated to KDF generator to follow NIST SP 800-108.</li>
<li>Franziskus Kiefer <https://github.com/franziskuskiefer> initial implementation of Cramer-Shoup.</li>
<li>KB Sirram <mail_kb&#064yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze <marco&#064nighlabs.de> Reported verification bug in GenericSigner.</li>
<li>Martin Schaefer <https://github.com/martinschaefer> contributed a code-cleanup patch.</li>
<li>Lijun Liao <ljun.liao&#064gmail.com> added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich <tobias.wich&#064gmail.com> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens <hauke&#064hauke-m.de> TLS patch to add ECDHE-ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman <dmz&#064galois.com> Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitzaka <ljt.kapitzka&#06464schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund <johan&#064primekey.se> update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn <https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch <axel-vdb&#064riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins <derek&#064ihtfp.com> Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky <peto&#064halicky.sk> Correction to notification/error message handling in SignedMailValidator.</li>
<li>lartiguePierre <https://github.com/lartiguePierre> Fix for counter signature SID in CMSSignedData.</li>
<li>Thomas Belot <thomas.belot+BC&#064gmail.com> initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce <https://github.com/rdicroce> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>Bj&ouml;rn Kautler <https://github.com/Vampire> Refinements to cert path validation (authority key addition, certificate order preservation).
Dominik Schürmann method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Michael <MSKnete@#064web.de> initial fix for bitStrength issue for OpenPGP EC keys.

Tobias Wagner <tobias.wagner@#064n-design.de> Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Sergio Giro <sgiro@#064google.com> Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

bschuette@https://github.com/bschuette> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

Leonard Dallot<https://github.com/dallotTazTag> Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen <j.w.janssen@bouncycastle@#064xtreme.nl> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial content signer verifier for BC lightweight EC.

Sebastian Oerding <sebastian.oerding@robotron.de> Fixes to toString() in x509.CertificatePolicies.

Kai Kramer <kai.kramer@#064gmail.com> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles <benoit.charles@#064opentrust.com> Fix for IES data length check on decryption.

Niko <nfink95@#064gmail.com> fix to cast issue in getOutputSize() for ECIES.

akwizgran@https://github.com/akwizgran> Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.

Matthias Edelhoff <Matthias.Edelhoff@#064cryptovision.com> BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Lukasz Deputat <lukasz.deputat@#064gmail.com> Fixed bugs in TlsUtils read methods [#BJA-592].

Justin Ludwig <https://github.com/justinludwig> Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.

Andrzejacutie, Berenguel <https://github.com/aberenguel> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

Slawomir Jarosowski <https://github.com/slawekjarosowski> Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev<https://github.com/andrey-vasilyev> Initial implementation of GOST R 34.11-2012.

William Glanton <wglanton77@#064gmail.com> Fixed bug in Poly1305 [#BJA-620].

jdvorak001@https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegle <jnaegle@grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof> defect analysis and additional test cases for the provider.

The Intel Security Team < analysis detecting the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AIDESEngine.

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1.710 pam unknown

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1.711 libtasn 2.3-6.el6_5
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---

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* /opt/cola/permits/1137117051_1614015979.48/0/jersey-guava-2-12-sources-2-jar/jersey/repackaged/com/google/common/primitives/SignedBytes.java
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jar/jersey/repackaged/com/google/common/hash/ChecksumHashFunction.java
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jar/jersey/repackaged/com/google/common/collection/ImmutableRangeSet.java
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jar/jersey/repackaged/com/google/common/io/BaseEncoding.java
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* /opt/cola/permits/1137117051_1614015979.48/0/jersey-guava-2-12-sources-2-
  jar/jersey/repackaged/com/google/common/collection/Interners.java
* /opt/cola/permits/1137117051_1614015979.48/0/jersey-guava-2-12-sources-2-
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  * /opt/cola/permits/1137117051_1614015979.48/0/jersey-guava-2-12-sources-2-jar/jersey/repackaged/com/google/common/io/OutputSupplier.java
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jar/jersey/repackaged/com/google/common/io/CharStreams.java
* /opt/cola/permits/1137117051_1614015979.48/0/jersey-guava-2-12-sources-2-jar/jersey/repackaged/com/google/common/collection/AbstractMapBasedMultimap.java
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* /opt/cola/permits/1137117051_1614015979.48/0/jersey-guava-2-12-sources-2-jar/jersey/repackaged/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1137117051_1614015979.48/0/jersey-guava-2-12-sources-2-jar/jersey/repackaged/com/google/common/collection/SingletonImmutableSet.java
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood
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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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

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

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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import java.io.IOException;
import java.io.InputStream;

/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream.  OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {
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End:
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
and the initial implementation of incremental propagation, including
the following new or changed files:

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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
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lib/kdb/kdb_log.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi', including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire creds.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store creds.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego.c
lib/gssapi/spnego/spnego.c

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

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

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1.778 xmlsec-java 1.3.0

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Version 2, June 1991

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

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analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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Appendix: How to Apply These Terms to Your New Libraries

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
  * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
  *
  * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
  * http://www.hypermall.com/
  * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
  *  interrupts us (except possibly for removal/insertion of the cable?)
  * 10/4/97 - began heavy inline documentation of the code. Corrected typos
  *  and spelling mistakes.
  * 10/5/97 - added code to handle PHY interrupts, disable PHY on
  *  loss of link, and correctly re-enable PHY when link is
  *  re-established. (put back CFG_PHYIE)
  *
  * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
  *
  * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
  *
  * Linux driver for the IDT77201 NICStAR PCI ATM controller.
  * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
  * see init_nicstar() for PHY initialization to change this. This driver
  * expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
 *
 *
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
 *
* M. Welsh, 6 July 1996
 *
*
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*
* curve25519-donna: Curve25519 elliptic curve, public key function
*
* http://code.google.com/p/curve25519-donna/
*
* Adam Langley <agl@imperialviolet.org>
*
* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
*
* More information about curve25519 can be found here
* http://cr.yp.to/ecdh.html
*
* djb's sample implementation of curve25519 is written in a special assembly
* language called qasm and uses the floating point registers.
*
* This is, almost, a clean room reimplementation from the curve25519 paper. It
* uses many of the tricks described therein. Only the crecip function is taken
* from the sample implementation.
*/

1.787 gpm 1.20.1

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

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The End

1.792 jackson-databind 2.5.4

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

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1.793 libconfig 1.3.2 1.1.el6

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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1.795 python 2.6.6 64.el6

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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 3, 29 June 2007

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1.804 bash 4.1.2 48.el6

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From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
 id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
"The lyf so short, the craft so long to lerne." - Chaucer

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

-- End of excerpt from Chet Ramey

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-1ns)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com by cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi.  I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0.  Thanks.

Sure.  I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz.  There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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1.811 xmlsec-java 1.3.0

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1.812 python-dateutil 1.4.1

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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jar/org/springframework/transaction/aspectj/AnnotationTransactionAspect.aj
* /opt/cola/permits/1136687355_1613859390.11/0/spring-aspects-3-1-4-release-sources-1-
jar/org/springframework/transaction/aspectj/MockStaticEntityMethods.java
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1.829 linux-kernel 3.10.94

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Version 2, June 1991

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

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

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M. Welsh, 6 July 1996

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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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<one line to give the program's name and a brief idea of what it does.>
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1.835 protobuf-c 1.2.1

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1.836 libjpeg 8b

1.836.1 Notifications :
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The Independent JPEG Group's JPEG software
==========================================

README for release 9c of 14-Jan-2018
====================================

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

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DOCUMENTATION ROADMAP
==========================================

This file contains the following sections:
OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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

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

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

REFERENCES
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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.
The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.iijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

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

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr9c.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body send usenet/news.answers/jpeg-faq/part1 send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
==================
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Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

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Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijc.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such
kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code. The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties. We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

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A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

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Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec. More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

1.837 net-tools 1.60-110.el6_2

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Appendix: How to Apply These Terms to Your New Programs

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

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Ty Coon, President of Vice

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
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medium customarily used for software interchange.

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

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

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

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

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

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

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

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the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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normally distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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facilities. This must be distributed under the terms of the
Sections above.

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

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

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

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

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

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

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

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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

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

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

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

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

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

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

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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* The linux operating system generally contains large amounts of code
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* type of copyright on this file would place restrictions upon the
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* the GPL or GLPL license if the program executable(s) that are supplied
* are linked to a shared library form of the GPL or GLPL library, and as
* long as the form of the shared library is such that it is possible for
* the end user to modify and rebuild the library and use it in
* conjunction with the program executable.
*/

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Version 2.1, February 1999

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Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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Received: from pop.gmx.net (localhost [127.0.0.1])
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On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

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testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
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> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
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1.856 libevent 1.4.13 4.el6

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 */
#!/bin/sh

# Common stub for a few missing GNU programs while installing.

scriptversion=2003-09-02.23

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# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

if test $# -eq 0; then
  echo 1>&2 "Try \$0 --help' for more information"
  exit 1
fi

# generated automatically by aclocal 1.10.1 -*- Autoconf -*-

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m4_ifndef([AC_AUTOCONF_VERSION],
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[m4_copy([m4_PACKAGE_VERSION], [AC_AUTOCONF_VERSION]))dnl
m4_if(AC_AUTOCONF_VERSION, [2.63],
[m4_warning([this file was generated for autoconf 2.63.
You have another version of autoconf. It may work, but is not guaranteed to.
If you have problems, you may need to regenerate the build system entirely.
To do so, use the procedure documented by the package, typically 'autoreconf'.]))

# libtool.m4 - Configure libtool for the host system. -*-Autoconf-*- 

# serial 52 AC_PROG_LIBTOOL

# AC_PROVIDE_IFELSE(MACRO-NAME, IF-PROVIDED, IF-NOT-PROVIDED)
# ---------------------------------------------------------------
# If this macro is not defined by Autoconf, define it here.
m4_ifdef([AC_PROVIDE_IFELSE],
[.]
[m4_define([AC_PROVIDE_IFELSE],
m4_ifdef([AC_PROVIDE_S1],
[S2], [S3]))])

# AC_PROG_LIBTOOL
# ----------------
AC_DEFUN([AC_PROG_LIBTOOL],
[AC_REQUIRE([AC_PROG_LIBTOOL])dnl
dnl If AC_PROG_CXX has already been expanded, run AC_LIBTOOL_CXX
dnl immediately, otherwise, hook it in at the end of AC_PROG_CXX.
AC_PROVIDE_IFELSE([AC_PROG_CXX],
[AC_LIBTOOL_CXX],
[define([AC_PROG_CXX], defn([AC_PROG_CXX])][AC_LIBTOOL_CXX ]])
dnl And a similar setup for Fortran 77 support
AC_PROVIDE_IFELSE([AC_PROG_F77],
[AC_LIBTOOL_F77],
[define([AC_PROG_F77], defn([AC_PROG_F77])][AC_LIBTOOL_F77 ]))

dnl Quote A][M_PROG_GCJ so that aclocal doesn't bring it in needlessly.
dnl If either AC_PROG_GCJ or A][M_PROG_GCJ have already been expanded, run
dnl AC_LIBTOOL_GCJ immediately, otherwise, hook it in at the end of both.
AC_PROVIDE_IFELSE([AC_PROG_GCJ],
[AC_LIBTOOL_GCJ],
[AC_PROVIDE_IFELSE([A][M_PROG_GCJ],
[AC_LIBTOOL_GCJ],
[AC_PROVIDE_IFELSE([LT_AC_PROG_GCJ],
[AC_LIBTOOL_GCJ],
[ifdef([AC_PROG_GCJ],


[define([AC_PROG_GCJ], defn([AC_PROG_GCJ])[AC_LIBTOOL_GCJ]))
ifdef([A][M_PROG_GCJ],
[define([A][M_PROG_GCJ], defn([A][M_PROG_GCJ])[AC_LIBTOOL_GCJ]))
ifdef([LT_AC_PROG_GCJ],
defn([LT_AC_PROG_GCJ])[AC_LIBTOOL_GCJ]])])
])# AC_PROG_LIBTOOL

# _AC_PROG_LIBTOOL
#  BASE
AC_DEFUN([_AC_PROG_LIBTOOL],
[AC_REQUIRE([AC_LIBTOOL_SETUP])]
AC_BEFORE([$0], [AC_LIBTOOL_CXX])
AC_BEFORE([$0], [AC_LIBTOOL_F77])
AC_BEFORE([$0], [AC_LIBTOOL_GCJ])

# This can be used to rebuild libtool when needed
LIBTOOL_DEPS="$ac_aux_dir/ltmain.sh"

# Always use our own libtool.
LIBTOOL="$($SHELL) $(top_builddir)/libtool"
AC_SUBST(LIBTOOL)

# Prevent multiple expansion
define([AC_PROG_LIBTOOL], [])
})# _AC_PROG_LIBTOOL

# AC_LIBTOOL_SETUP
#  BASE
AC_DEFUN([AC_LIBTOOL_SETUP],
[AC_PREREQ(2.50)]
AC_REQUIRE([AC_ENABLE_SHARED])
AC_REQUIRE([AC_ENABLE_STATIC])
AC_REQUIRE([AC_ENABLE_FAST_INSTALL])
AC_REQUIRE([AC_CANONICAL_HOST])
AC_REQUIRE([AC_CANONICAL_BUILD])
AC_REQUIRE([AC_PROG_CC])
AC_REQUIRE([AC_PROG_LD])
AC_REQUIRE([AC_PROG_LDL_RELOAD_FLAG])
AC_REQUIRE([AC_PROG_NM])

AC_REQUIRE([AC_PROG_LN_S])
AC_REQUIRE([AC_DEPLIBS_CHECK_METHOD])
# Autoconf 2.13's AC_OBJEXT and AC_EXEEXT macros only works for C compilers!
AC_REQUIRE([AC_OBJEXT])
AC_REQUIRE([AC_EXEEXT])
case $host_os in
  aix3*)
    # AIX sometimes has problems with the GCC collect2 program. For some
    # reason, if we set the COLLECT_NAMES environment variable, the problems
    # vanish in a puff of smoke.
    if test "X$COLLECT_NAMES" != Xset; then
      COLLECT_NAMES=
      export COLLECT_NAMES
    fi
  ;;
esac

# Sed substitution that helps us do robust quoting. It backslashifies
# metacharacters that are still active within double-quoted strings.
Xsed='sed -e 1s/^X//'
[sed_quote_subst='s/\([^"'\\\]\)/\\1/g']

# Same as above, but do not quote variable references.
[double_quote_subst='s/\([^"'\\\]\)/\\1/g']

# Sed substitution to delay expansion of an escaped shell variable in a
# double_quote_subst'ed string.
deelay_variable_subst='s/\\\\\\$/\\\$/g'

# Sed substitution to avoid accidental globbing in evaled expressions
no_glob_subst='s/\*/\\*/g'

# Constants:
rm="rm -f"

# Global variables:
default_ofile=libtool
can_build_shared=yes

# All known linkers require a `.a' archive for static linking (except MSVC,
# which needs `.lib').
libext=a
ltmain="$ac_aux_dir/ltmain.sh"
ofile="$default_ofile"
with_gnu_ld="$lt_cv_prog_gnu_ld"
AC_CHECK_TOOL(AR, ar, false)
AC_CHECK_TOOL(RANLIB, ranlib, :)  
AC_CHECK_TOOL(STRIp, strip, :)

old_CC="$CC"
old_CFLAGS="$CFLAGS"

# Set sane defaults for various variables
  test -z "$AR" & & AR=ar
  test -z "$AR_FLAGS" & & AR_FLAGS=cru
  test -z "$AS" & & AS=as
  test -z "$CC" & & CC=cc
  test -z "$LTCC" & & LTCC=$CC
  test -z "$LTCCFLAGS" & & LTCCFLAGS=$CFLAGS
  test -z "$DLLTOOL" & & DLLTOOL=dlltool
  test -z "$LD" & & LD=ld
  test -z "$LN_S" & & LN_S="ln -s"
  test -z "$OBJDUMP" & & OBJDUMP=objdump
  test -z "$RANLIB" & & RANLIB=:
  test -z "$STRIP" & & STRIP=:
  test -z "$ac_objext" & & ac_objext=o

# Determine commands to create old-style static archives.
old_archive_cmds='$AR $AR_FLAGS $oldlib$oldobjs'
old_postinstall_cmds='chmod 644 $oldlib'
old_postuninstall_cmds=
if test -n "$RANLIB"; then
case $host_os in
  openbsd*)
    old_postinstall_cmds='$old_postinstall_cmds\$RANLIB -t $oldlib''
  *;)
  *)
    old_postinstall_cmds='$old_postinstall_cmds\$RANLIB $oldlib''
  ::
esac
old_archive_cmds='$old_archive_cmds\$RANLIB $oldlib''
fi

_LT_CC_BASENAME([$compiler])

# Only perform the check for file, if the check method requires it
case $deplibs_check_method in
  file_magic*)

---

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if test "$file_magic_cmd" = "$MAGIC_CMD"; then
    AC_PATH_MAGIC
fi

;;
esac

_LT_REQUIRED_DARWIN_CHECKS

AC_PROVIDE_IFELSE([AC_LIBTOOL_DLOPEN], enable_dlopen=yes, enable_dlopen=no)
AC_PROVIDE_IFELSE([AC_LIBTOOL_WIN32_DLL], enable_win32_dll=yes, enable_win32_dll=no)

AC_ARG_ENABLE([libtool-lock],
    [AC_HELP_STRING([--disable-libtool-lock], [avoid locking (might break parallel builds)]))
    test "x$enable_libtool_lock" != xno && enable_libtool_lock=yes

AC_ARG_WITH([pic],
    [AC_HELP_STRING([--with-pic], [try to use only PIC/non-PIC objects @<:@default=use both@:@>]],
        [pic_mode="$withval"],
        [pic_mode=default])
    test -z "$pic_mode" && pic_mode=default

# Use C for the default configuration in the libtool script
tagname=
AC_LIBTOOL_LANG_C_CONFIG
_LT_AC_TAGCONFIG
))# AC_LIBTOOL_SETUP

# _LT_AC_SYS_COMPILER
# -------------------
AC_DEFUN([_LT_AC_SYS_COMPILER],
    [AC_REQUIRE([AC_PROG_CC])]
    LTCC=${LTCC-"$CC"}
# If no C compiler was specified, use CC.
    LTCFLAGS=${LTCFLAGS-"$CFLAGS"}
    # If no C compiler flags were specified, use CFLAGS.
    compiler=${CC}
))# _LT_AC_SYS_COMPILER

# _LT_CC_BASENAME(CC)
# Calculate cc_basename. Skip known compiler wrappers and cross-prefix.
AC_DEFUN([_LT_CC_BASENAME],
[for cc_temp in "$1"; do
  case $cc_temp in
    compile | */\[/compile | cache | */[[]]ccache ) ;;
    distcc | */\[/distcc | purify | */[[]]purify ) ;;
    *) break;;;
  esac
  done
  cc_basename="$echo "X$cc_temp" | $Xsed -e 's%.*/%%' -e "s%^$host_alias-%%""
])

# _LT_COMPILER_BOILERPLATE
# ------------------------
# Check for compiler boilerplate output or warnings with
# the simple compiler test code.
AC_DEFUN([_LT_COMPILER_BOILERPLATE],
[AC_REQUIRE([LT_AC_PROG_SED])]
ac_outfile=conftest.$ac_objext
echo "$lt_simple_compile_test_code" >conftest.$ac_ext
eval "$ac_compile" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >conftest.err
_LT_compiler_boilerplate='cat conftest.err'
$rm conftest*
])

# _LT_LINKER_BOILERPLATE
# ----------------------
# Check for linker boilerplate output or warnings with
# the simple link test code.
AC_DEFUN([_LT_LINKER_BOILERPLATE],
[AC_REQUIRE([LT_AC_PROG_SED])]
ac_outfile=conftest.$ac_objext
echo "$lt_simple_link_test_code" >conftest.$ac_ext
eval "$ac_link" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >conftest.err
_LT_linker_boilerplate='cat conftest.err'
$rm -r conftest*
))

# _LT_REQUIRED_DARWIN_CHECKS
# --------------------------
# Check for some things on darwin
AC_DEFUN([_LT_REQUIRED_DARWIN_CHECKS],
[case $host_os in
  rhapsody* | darwin*)
AC_CHECK_TOOL([DSYMUTIL], [dSYMutil], [[:]])
AC_CHECK_TOOL([NMEDIT], [nmedit], [[:]])

AC_CACHE_CHECK((for -single_module linker flag), [lt_cv_apple_cc_single_mod],
   [lt_cv_apple_cc_single_mod=no]
   if test -z "\$[LT_MULTI_MODULE]"; then
   # By default we will add the -single_module flag. You can override
   # by either setting the environment variable LT_MULTI_MODULE
   # non-empty at configure time, or by adding -multi_module to the
   # link flags.
   echo "int foo(void){return 1;}" > conftest.c
   $LTCC $LTCFLAGS $LDFLAGS -o libconftest.dylib \
     -dynamiclib \$[wl]-single_module conftest.c
   if test -f libconftest.dylib; then
     lt_cv_apple_cc_single_mod=yes
   rm -rf libconftest.dylib*
   fi
   rm conftest.c
   fi))
AC_CACHE_CHECK((for -exported_symbols_list linker flag),
   [lt_cv_ld_exported_symbols_list],
   [lt_cv LD_exported_symbols_list=no]
   save_LDFLAGS=$LDFLAGS
   echo ",main" > conftest.sym
   LDFLAGS="$LDFLAGS -Wl,-exported_symbols_list,conftest.sym"
   AC_LINK_IFELSE((AC_LANG_PROGRAM([]), []),
   [lt_cv_ld_exported_symbols_list=yes],
   [lt_cv LD_exported_symbols_list=no])
   LDFLAGS="$save_LDFLAGS"
))

case $host_os in
  rhapsody* | darwin1.[[0123]])
    _lt_dar_allow_undefined='${wl}-undefined ${wl}suppress' ;;
  darwin1.*)
    _lt_dar_allow_undefined='${wl}-undefined ${wl}suppress' ;;
  darwin*)
    # if running on 10.5 or later, the deployment target defaults
    # to the OS version, if on x86, and 10.4, the deployment
    # target defaults to 10.4. Don't you love it?
    case $[MACOSX_DEPLOYMENT_TARGET-10.0],$host in
      10.0,*86*-darwin8*|10.0,*-darwin[[91]]*)
        _lt_dar_allow_undefined='${wl}-undefined ${wl}dynamic_lookup' ;;
      10.[[012]]*)
        _lt_dar_allow_undefined='${wl}-undefined ${wl}dynamic_lookup' ;;
      10.*)
        _lt_dar_allow_undefined='${wl}-undefined ${wl}dynamic_lookup' ;;
    esac
  ;;
esac

if test "$lt_cv_apple_cc_single_mod" = "yes"; then
  _lt_dar_single_mod='$single_module'
fi

if test "$lt_cv_ld_exported_symbols_list" = "yes"; then
  _lt_dar_export_syms=' ${wl}-exported_symbols_list,$output_objdir/${libname}-symbols.expsym'
else
  _lt_dar_export_syms="~$NMEDIT -s $output_objdir/${libname}-symbols.expsym \${lib}"
fi

if test "$DSYMUTIL" != ":"; then
  _lt_dsymutil="~$DSYMUTIL \${lib} || "
else
  _lt_dsymutil="~
fi
::
esac
)

# _LT_AC_SYS_LIBPATH_AIX
# ----------------------
# Links a minimal program and checks the executable
# for the system default hardcoded library path. In most cases,
# this is /usr/lib:/lib, but when the MPI compilers are used
# the location of the communication and MPI libs are included too.
# If we don't find anything, use the default library path according
# to the aix ld manual.
AC_DEFUN([_LT_AC_SYS_LIBPATH_AIX],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_LINK_IFELSE([LT_LANG_PROGRAM],
lt_aix_libpath_sed='"/Import File Strings/;/^$/ {"/
0/ {"s/0  *(.*)/\1/
  p
}
"}
aix_libpath=`dump -H conftest$ac_exeext 2>/dev/null | $SED -n -e "$lt_aix_libpath_sed"`
# Check for a 64-bit object if we didn't find anything.
if test -z "$aix_libpath"; then
  aix_libpath=`dump -HX64 conftest$ac_exeext 2>/dev/null | $SED -n -e "$lt_aix_libpath_sed"`
fi]
)
if test -z "$aix_libpath"; then aix_libpath="/usr/lib:/lib"; fi
))# _LT_AC_SYS_LIBPATH_AIX

# _LT_AC_SHELL_INIT(ARG)
# ----------------------
AC_DEFUN([_LT_AC_SHELL_INIT],

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ifdef[AC_DIVERSION_NOTICE],
    [AC_DIVERT_PUSH(AC_DIVERSION_NOTICE)],
    [AC_DIVERT_PUSH(NOTICE)])
$1
AC_DIVERT_POP
)

LT_AC_SHELL_INIT

LT_AC_PROG_ECHO_BACKSLASH

# Add some code to the start of the generated configure script which
# will find an echo command which doesn't interpret backslashes.
AC_DEFUN([LT_AC_PROG_ECHO_BACKSLASH],
[LT_AC_SHELL_INIT([

# Check that we are running under the correct shell.
SHELL=${CONFIG_SHELL-/bin/sh}

case X$ECHO in
    *--fallback-echo)
    # Remove one level of quotation (which was required for Make).
    ECHO="echo "$ECHO" | sed,'s,\\$\0,\\0','"
    ;;
    esac
    echo=${ECHO-echo}
    if test "X[$1]" = X--no-reexec; then
        # Discard the --no-reexec flag, and continue.
        shift
        elif test "X[$1]" = X--fallback-echo; then
        # Avoid inline document here, it may be left over
        :;
        elif test "X'($echo \t) 2>/dev/null'" = 'X\t'; then
        # Yippee, $echo works!
        :
        else
        # Restart under the correct shell.
        exec $SHELL "$[0]" --no-reexec $[1+"$[0]""]
    fi
    fi
    if test "X[$1]" = X--fallback-echo; then
        # used as fallback echo
        shift
        cat <<EOF
[$]*
EOF
        exit 0
    fi
# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

if test -z "$ECHO"; then
    if test "X$[echo_test_string+set]" != Xset; then
        # find a string as large as possible, as long as the shell can cope with it
        for cmd in 'sed 50q "[\$]0"' 'sed 20q "[\$]0"' 'sed 10q "[\$]0"' 'sed 2q "[\$]0"' 'echo test'; do
            # expected sizes: less than 2Kb, 1Kb, 512 bytes, 16 bytes, ...
            if (echo_test_string='eval $cmd') 2>/dev/null &&
                echo_test_string='eval $cmd' &&
                (test "X$echo_test_string" = "X$echo_test_string") 2>/dev/null
            then
                break
            fi
        done

        if test "X'($echo \t') 2>/dev/null" = 'X\t' &&
            echo_testing_string='($echo "$echo_test_string") 2>/dev/null' &&
            test "X$echo_testing_string" = "X$echo_test_string"; then
        :;
        else
            # The Solaris, AIX, and Digital Unix default echo programs unquote
            # backslashes. This makes it impossible to quote backslashes using
            # echo "$something" | sed 's/\n/\\\n/g'

            # So, first we look for a working echo in the user's PATH.

        fi
    fi
fi

lt_save_ifs="IFS"; IFS=$PATH_SEPARATOR
for dir in $PATH /usr/ucb; do
    IFS="$lt_save_ifs"
    if (test -f $dir/echo || test -f $dir/echo$ac_exeext) &&
        test "X'($dir/echo \t') 2>/dev/null" = 'X\t' &&
        echo_testing_string='($dir/echo "$echo_test_string") 2>/dev/null' &&
        test "X$echo_testing_string" = "X$echo_test_string"; then
        echo="$dir/echo"
        break
    fi
done
IFS="$lt_save_ifs"

if test "X$echo" = Xecho; then
    # We didn't find a better echo, so look for alternatives.
    if test "X'(print -r \t') 2>/dev/null" = 'X\t' &&
        echo_testing_string='(print -r "$echo_test_string") 2>/dev/null' &&
        test "X$echo_testing_string" = "X$echo_test_string"; then
        # This shell has a builtin print -r that does the trick.
elif (test -f /bin/ksh || test -f /bin/ksh$ac_exeext) &&
test "X$CONFIG_SHELL" != X/bin/ksh; then
  # If we have ksh, try running configure again with it.
  ORIGINAL_CONFIG_SHELL=${CONFIG_SHELL-/bin/sh}
  export ORIGINAL_CONFIG_SHELL
  CONFIG_SHELL=/bin/ksh
  export CONFIG_SHELL
  exec $CONFIG_SHELL "[$@]0" --no-reexec ${1+"[$@]"}
else
  # Try using printf.
  echo='printf %s
' if test "X'($echo \t') 2>/dev/null" = 'X\t' &&
  echo_testing_string=('($echo "$echo_test_string") 2>/dev/null' &&
  test "X$echo_testing_string" = "X$echo_test_string"; then
    # Cool, printf works
    : 
    elif echo_testing_string=('($ORIGINAL_CONFIG_SHELL "[$@]0" --fallback-echo \t') 2>/dev/null' &&
  test "X$echo_testing_string" = 'X\t' &&
  echo_testing_string=('($ORIGINAL_CONFIG_SHELL "[$@]0" --fallback-echo "$echo_test_string") 2>/dev/null' &&
  test "X$echo_testing_string" = "X$echo_test_string"; then
    CONFIG_SHELL=$ORIGINAL_CONFIG_SHELL
    export CONFIG_SHELL
    SHELL="$CONFIG_SHELL"
    export SHELL
    echo="$CONFIG_SHELL [${@} --fallback-echo"
    elif echo_testing_string=('($CONFIG_SHELL "[$@]0" --fallback-echo \t') 2>/dev/null' &&
  test "X$echo_testing_string" = 'X\t' &&
  echo_testing_string=('($CONFIG_SHELL "[$@]0" --fallback-echo "$echo_test_string") 2>/dev/null' &&
  test "X$echo_testing_string" = "X$echo_test_string"; then
    echo="$CONFIG_SHELL [${@} --fallback-echo"
  else
    # maybe with a smaller string...
    prev=:

    for cmd in 'echo test' 'sed 2q "[${@}]0"' 'sed 10q "[${@}]0"' 'sed 20q "[${@}]0"' 'sed 50q "[${@}]0"'; do
      if (test "X$echo_test_string" = "X'eval $cmd'") 2>/dev/null then
        break
      fi
      prev="$cmd"
    done

    if test "$prev" != 'sed 50q "[${@}]0"'; then
      echo_test_string='eval $prev'
      export echo_test_string
      exec $(ORIGINAL_CONFIG_SHELL-$({CONFIG_SHELL=/bin/sh}) "[${@}]0" ${1+"[${@}]"})
else
  # Oops. We lost completely, so just stick with echo.
  echo=echo
fi
fi
fi
fi
fi
fi
fi
fi
fi
fi
fi
fi

# Copy echo and quote the copy suitably for passing to libtool from
# the Makefile, instead of quoting the original, which is used later.
ECHO=$echo
if test "X$ECHO" = "X$CONFIG_SHELL [\$]0 --fallback-echo"; then
  ECHO="$CONFIG_SHELL \$[\$]0 --fallback-echo"
fi

AC_SUBST(ECHO)
)]]# _LT_AC_PROG_ECHO_BACKSLASH

# _LT_AC_LOCK
# --------
AC_DEFUN([_LT_AC_LOCK],
[AC_ARG_ENABLE([libtool-lock],
  [AC_HELP_STRING([--disable-libtool-lock],
    [avoid locking (might break parallel builds)])])
]test "x$enable_libtool_lock" != xno && enable_libtool_lock=yes

# Some flags need to be propagated to the compiler or linker for good
# libtool support.
case $host in
  ia64-/*-hpux*)
    # Find out which ABI we are using.
    echo 'int i;' > conftest.$ac_ext
    if AC_TRY_EVAL(ac_compile); then
      case '/usr/bin/file conftest.$ac_objext' in
        *ELF-32*)
          HPUX_IA64_MODE="32"
        ;;
        *ELF-64*)
          HPUX_IA64_MODE="64"
        ;;
        esac
    fi
    rm -rf conftest
    ;;
  *.*-irix6*)
# Find out which ABI we are using.
echo '[#line __oline__ "configure"] > conftest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
  if test "$lt_cv_prog_gnu_ld" = yes; then
    case /usr/bin/file conftest.$ac_objext in
      *32-bit*)
      LD="${LD-ld} -melf32bsmip"
      ;;
      *N32*)
      LD="${LD-ld} -melf32bmipn32"
      ;;
      *64-bit*)
      LD="${LD-ld} -melf64bmip"
      ;;
      esac
    else
      case /usr/bin/file conftest.$ac_objext in
        *32-bit*)
        LD="${LD-ld} -32"
        ;;
        *N32*)
        LD="${LD-ld} -n32"
        ;;
        *64-bit*)
        LD="${LD-ld} -64"
        ;;
      esac
    fi
  fi
rm -rf conftest*
;;
x86_64-*kfreebsd*-gnu|x86_64-*linux*|ppc*-*linux*|powerpc*-*linux*|s390*-*linux*|sparc*-*linux*)
# Find out which ABI we are using.
echo 'int i;' > conftest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
  case /usr/bin/file conftest.o in
    *32-bit*)
    case $host in
      x86_64-*kfreebsd*-gnu)
        LD="${LD-ld} -m elf_i386_fbsd"
        ;;
      x86_64-*linux*)
        LD="${LD-ld} -m elf_i386"
        ;;
      ppc64-*linux*|powerpc64-*linux*)
        LD="${LD-ld} -m elf32ppclinux"
s390x-*linux*)
  LD="$(LD-ld) -m elf_s390"
  
  sparc64-*linux*)
  LD="$(LD-ld) -m elf32_sparc"
  
esac
  
*64-bit*)
  case $host in
    x86_64-*kfreebsd*-gnu)
      LD="$(LD-ld) -m elf_x86_64_fbsd"
      
    x86_64-*linux*)
      LD="$(LD-ld) -m elf_x86_64"
      
    ppc*.*linux*[powerpc*-linux*)
      LD="$(LD-ld) -m elf64ppc"
      
    s390*-*linux*)
      LD="$(LD-ld) -m elf64_s390"
      
    sparc*-linux*)
      LD="$(LD-ld) -m elf64_sparc"
      
esac
  esac
fi
rm -rf conftest*

# On SCO OpenServer 5, we need -belf to get full-featured binaries.
SAVE_CFLAGS="$CFLAGS"
CFLAGS="SCFLAGS -belf"
AC_CACHE_CHECK([[whether the C compiler needs -belf]], lt_cv_cc_needs_belf,
  [AC_LANG_PUSH(C)
   AC_TRY_LINK([], [], [lt_cv_cc_needs_belf=yes], [lt_cv_cc_needs_belf=no])
   AC_LANG_POP])
if test x"$lt_cv_cc_needs_belf" != x"yes"; then
  # this is probably gcc 2.8.0, egcs 1.0 or newer; no need for -belf
  CFLAGS="SSAVE_CFLAGS"
fi

sparc*.*solaris*)
  # Find out which ABI we are using.
echo 'int i;' > conftest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
    case '/usr/bin/file conftest.o' in
        *64-bit*)
            case $lt_cv_prog_gnu_ld in
                yes*) LD="${LD-ld} -m elf64_sparc" ;;
                *)
                    if ${LD-ld} -64 -r -o conftest2.o conftest.o >/dev/null 2>&1; then
                        LD="${LD-ld} -64"
                    fi
                esac
            esac
        esac
    esac
fi
esac
esac
fi
rm -rf conftest*

AC_PROVIDE_IFELSE([AC_LIBTOOL_WIN32_DLL],
    [*-*-cygwin* | *-*-mingw* | *-*-pw32*)
AC_CHECK_TOOL(DLLTOOL, dlltool, false)
AC_CHECK_TOOL(AS, as, false)
AC_CHECK_TOOL(OBJDUMP, objdump, false)
;
})
esac

need_locks="$enable_libtool_lock"

})# _LT_AC_LOCK

# AC_LIBTOOL_COMPILER_OPTION(MESSAGE, VARIABLE-NAME, FLAGS,
# [OUTPUT-FILE], [ACTION-SUCCESS], [ACTION-FAILURE])
# --------------------------------------------------------------
# Check whether the given compiler option works
AC_DEFUN([AC_LIBTOOL_COMPILER_OPTION],
    [AC_REQUIRE([LT_AC_PROG_SED])
    AC_CACHE_CHECK([$1], [$2],
        [$2=no
        ifelse([$4], , [ac_outfile=conftest.$ac_objext], [ac_outfile=$4])
        echo "$lt_simple_compile_test_code" > conftest.$ac_ext
        lt_compiler_flag="$3"
    # Insert the option either (1) after the last *FLAGS variable, or
    # (2) before a word containing "conftest.", or (3) at the end.
    # Note that $ac_compile itself does not contain backslashes and begins
    # with a dollar sign (not a hyphen), so the echo should work correctly.
    # The option is referenced via a variable to avoid confusing sed.
lt_compile='echo "$ac_compile" | $SED -e s:*FLAGS\){0,1} :&lt_compiler_flag :; t" -e s:*confTest\: $lt_compiler_flag;&; t" -e s:$lt_compiler_flag:" (eval echo "\"$as_me:__oline__: $lt_compile\"" >&AS_MESSAGE_LOG_FD) (eval "$lt_compile" 2>&confTest.err)

ac_status=$?
cat confTest.err >&AS_MESSAGE_LOG_FD
echo "$as_me:__oline__: $? = $ac_status" >&AS_MESSAGE_LOG_FD
if (exit $ac_status) && test -s "$ac_outfile"; then
  # The compiler can only warn and ignore the option if not recognized
  # So say no if there are warnings other than the usual output.
  $echo "X$_lt_compiler_boilerplate" | $Xsed -e /^$/d >confTest.exp
  $SED /^$/d; /^ */+d' confTest.err >confTest.er2
  if test ! -s confTest.er2 || diff confTest.exp confTest.er2 >/dev/null; then
    $2=yes
  fi
  fi
  $rm confTest*
)
if diff conftest.exp conftest.er2 >/dev/null; then
    $2=yes
fi
else
    $2=yes
fi
rm -r conftest* 
LDFLAGS="$save_LDFLAGS"
}

if test x"[$2]" = xyes; then
    ifelse([4], , : , [4])
else
    ifelse([5], , : , [5])
fi
}

# AC_LIBTOOL_LINKER_OPTION

# AC_LIBTOOL_SYS_MAX_CMD_LEN
# --------------------------
AC_DEFUN([AC_LIBTOOL_SYS_MAX_CMD_LEN],
[# find the maximum length of command line arguments
AC_MSG_CHECKING([the maximum length of command line arguments])
AC_CACHE_VAL([lt_cv_sys_max_cmd_len], [dnl
	i=0
teststring="ABCD"

case $build_os in
    msdosdjgpp*)
    # On DJGPP, this test can blow up pretty badly due to problems in libc
    # (any single argument exceeding 2000 bytes causes a buffer overrun
    # during glob expansion). Even if it were fixed, the result of this
    # check would be larger than it should be.
    lt_cv_sys_max_cmd_len=12288;    # 12K is about right
    ;;
    gnu*)
    # Under GNU Hurd, this test is not required because there is
    # no limit to the length of command line arguments.
    # Libtool will interpret -1 as no limit whatsoever
    lt_cv_sys_max_cmd_len=-1;
    ;;
    cygwin* | mingw*)
    # On Win9x/ME, this test blows up -- it succeeds, but takes
    # about 5 minutes as the teststring grows exponentially.
    # Worse, since 9x/ME are not pre-emptively multitasking,
# you end up with a "frozen" computer, even though with patience
# the test eventually succeeds (with a max line length of 256k).
# Instead, let's just punt: use the minimum linelength reported by
# all of the supported platforms: 8192 (on NT/2K/XP).
l_t_cv_sys_max_cmd_len=8192;

amigaos*)
  # On AmigaOS with pdksh, this test takes hours, literally.
  # So we just punt and use a minimum line length of 8192.
l_t_cv_sys_max_cmd_len=8192;

netbsd* | freebsd* | openbsd* | darwin* | dragonfly*)
  # This has been around since 386BSD, at least. Likely further.
  if test -x /sbin/sysctl; then
    l_t_cv_sys_max_cmd_len='/sbin/sysctl -n kern.argmax'
  elif test -x /usr/sbin/sysctl; then
    l_t_cv_sys_max_cmd_len='/usr/sbin/sysctl -n kern.argmax'
  else
    l_t_cv_sys_max_cmd_len=65536	# usable default for all BSDs
  fi
  # And add a safety zone
  l_t_cv_sys_max_cmd_len='expr $l_t_cv_sys_max_cmd_len / 4'
  l_t_cv_sys_max_cmd_len='expr $l_t_cv_sys_max_cmd_len \* 3'

interix*)
  # We know the value 262144 and hardcode it with a safety zone (like BSD)
l_t_cv_sys_max_cmd_len=196608

osf*)
  # Dr. Hans Ekkehard Plesser reports seeing a kernel panic running configure
  # due to this test when exec_disable_arg_limit is 1 on Tru64. It is not
  # nice to cause kernel panics so lets avoid the loop below.
  # First set a reasonable default.
l_t_cv_sys_max_cmd_len=16384
  #
  if test -x /sbin/sysconfig; then
    case '/sbin/sysconfig -q proc exec_disable_arg_limit' in
      *1*) l_t_cv_sys_max_cmd_len=-1 ;;
    esac
  fi

sco3.2v5*)
l_t_cv_sys_max_cmd_len=102400

sysv5* | sco5v6* | sysv4.2uw2*)
kargmax='grep ARG_MAX /etc/conf/cf.d/stune 2>/dev/null'
if test -n "$kargmax"; then
  lt_cv_sys_max_cmd_len='echo $kargmax | sed 's/.*\[[ ]\]//''
else
  lt_cv_sys_max_cmd_len=32768
fi
;
*)
lt_cv_sys_max_cmd_len='(getconf ARG_MAX) 2>/dev/null'
if test -n "$lt_cv_sys_max_cmd_len"; then
  lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \* 4'
  lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \* 3'
else
  SHELL=${SHELL-${CONFIG_SHELL-/bin/sh}}
while (test "X""$SHELL [ ]0 --fallback-echo "X teste" 2>/dev/null \ 
  = "XX teste") /dev/null 2>&1 &&
  new_result='expr "X teste" : ".*" 2>&1' &&
  lt_cv_sys_max_cmd_len=$new_result &&
  test $i != 17 # 1/2 MB should be enough
  do
    i='expr $i + 1'
    teststring=$teststring$teststring
  done
  teststring=
  # Add a significant safety factor because C++ compilers can tack on massive
  # amounts of additional arguments before passing them to the linker.
  # It appears as though 1/2 is a usable value.
  lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \* 2'
fi
;
esac
)}
if test -n $lt_cv_sys_max_cmd_len ; then
  AC_MSG_RESULT($lt_cv_sys_max_cmd_len)
else
  AC_MSG_RESULT(none)
fi
}# AC_LIBTOOL_SYS_MAX_CMD_LEN

# _LT_AC_CHECK_DLFCN
# ---------------
AC_DEFUN([_LT_AC_CHECK_DLFCN],
[AC_CHECK_HEADERS(dlfcn.h)]
)
# _LT_AC_TRY_DLOPEN_SELF (ACTION-IF-TRUE, ACTION-IF-TRUE-W-USCORE,
# ACTION-IF-FALSE, ACTION-IF-CROSS-COMPILING)
#
# ---------------------------------------------------------------------
AC_DEFUN([_LT_AC_TRY_DLOPEN_SELF],
[AC_REQUIRE([_LT_AC_CHECK_DLFCN])dnl
if test "$cross_compiling" = yes; then :
  [$4]
else
  lt_dlunknown=0; lt_dlno_uscore=1; lt_dlneed_uscore=2
  lt_status=$lt_dlunknown
cat > conftest.$ac_ext <<EOF
[#line __oline__ "configure"
#include "confdefs.h"
ifndef HAVE_DLFCN_H
#include <dlfcn.h>
endif

ifndef RTLD_GLOBAL
  # define LT_DLGLOBALRTLD_GLOBAL
else
  # ifdef DL_GLOBAL
  # define LT_DLGLOBALDL_GLOBAL
  # else
  # define LT_DLGLOBAL0
  # endif
endif

/* We may have to define LT_DLLAZY_OR_NOW in the command line if we
 find out it does not work in some platform. */
ifndef LT_DLLAZY_OR_NOW
  #ifdef RTLD_LAZY
    # define LT_DLLAZY_OR_NOWRTLD_LAZY
  #ifdef DL_LAZY
    # define LT_DLLAZY_OR_NOWDL_LAZY
  #endif
  #ifdef RTLD_NOW
    # define LT_DLLAZY_OR_NOWRTLD_NOW
  #ifdef DL_NOW
    # define LT_DLLAZY_OR_NOWDL_NOW
  #endif
  #endif
endif
endif
# endif
# endif
#endif

#ifdef __cplusplus
extern "C" void exit (int);
#endif

void fnord() { int i=42; }

int main ()
{
    void *self = dlopen (0, LT_DLGLOBAL|LT_DLLAZY_OR_NOW);
    int status = $lt_dlunknown;

    if (self)
    {
        if (dlsym (self,"fnord")) status = $lt_dlno_uscore;
        else if (dlsym( self,"_fnord")) status = $lt_dlneed_uscore;
        /* dlclose (self); */
    }
    else
    puts (dlerror ());

    exit (status);
}]
EOF

if AC_TRY_EVAL(ac_link) && test -s conftest${ac_exeext} 2>/dev/null; then
    (/conftest; exit; ) >&AS_MESSAGE_LOG_FD 2>/dev/null
    lt_status=$?
    case x$lt_status in
     x$lt_dlno_uscore) $1; ;
     x$lt_dlneed_uscore) $2; ;
     x$lt_dlunknown[x*) $3; ;
     esac
    else :
    # compilation failed
    $3
    fi
fi
rm -fr conftest*
})# _LT_AC_TRY_DLOPEN_SELF

# AC_LIBTOOL_DLOPEN_SELF
# ----------------------
AC_DEFUN([AC_LIBTOOL_DLOPEN_SELF],
[AC_REQUIRE([_LT_AC_CHECK_DLFCN])dnl
if test "x$enable_dlopen" != xyes; then

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enable_dlopen=unknown
enable_dlopen_self=unknown
enable_dlopen_self_static=unknown
else
lt_cv_dlopen=no
lt_cv_dlopen.libs=

case $host_os in
beos*)
    lt_cv_dlopen="load_add_on"
    lt_cv_dlopen.libs=
    lt_cv_dlopen_self=yes
    ;;

mingw* | pw32*)
    lt_cv_dlopen="LoadLibrary"
    lt_cv_dlopen.libs=
    ;;

cygwin*)
    lt_cv_dlopen="dlopen"
    lt_cv_dlopen.libs=
    ;;

darwin*)
    # if libdl is installed we need to link against it
    AC_CHECK_LIB([dl], [dlopen],
    [lt_cv_dlopen="dlopen" lt_cv_dlopen.libs="-ldl"],
    lt_cv_dlopen="dyld"
    lt_cv_dlopen.libs=
    lt_cv_dlopen_self=yes
    ))
    ;;
    *)
    AC_CHECK_FUNC([shl_load],
    [lt_cv_dlopen="shl_load"],
    [AC_CHECK_LIB([dl], [shl_load],
    [lt_cv_dlopen="shl_load" lt_cv_dlopen.libs="-ldld"],
    [AC_CHECK_FUNC([dlopen],
    [lt_cv_dlopen="dlopen"],
    [AC_CHECK_LIB([dl], [dlopen],
    [lt_cv_dlopen="dlopen" lt_cv_dlopen.libs="-ldl"],
    [AC_CHECK_LIB([svld], [dlopen],
    [lt_cv_dlopen="dlopen" lt_cv_dlopen.libs="-lsvld"],
    [AC_CHECK_LIB([dld], [dld_link],
    [lt_cv_dlopen="dld_link" lt_cv_dlopen.libs="-ldld"))))
    ])}]})
if test "x$lt_cv_dlopen" != xno; then
    enable_dlopen=yes
else
    enable_dlopen=no
fi

case $lt_cv_dlopen in
dlopen)
    save_CPPFLAGS="$CPPFLAGS"
    test "x$ac_cv_header_dlfcn_h" = xyes && CPPFLAGS="$CPPFLAGS -DHAVE_DLFCN_H"

    save_LDFLAGS="$LDFLAGS"
    wl=$lt_prog_compiler_wl eval LDFLAGS="\"$LDFLAGS $export_dynamic_flag_spec\""

    save_LIBS="$LIBS"
    LIBS="$lt_cv_dlopen_libs $LIBS"

    AC_CACHE_CHECK([whether a program can dlopen itself],
    lt_cv_dlopen_self, [dnl
    _LT_AC_TRY_DLOPEN_SELF(
    lt_cv_dlopen_self=yes, lt_cv_dlopen_self=yes,
    lt_cv_dlopen_self=no, lt_cv_dlopen_self=cross)
    ])
if test "x$lt_cv_dlopen_self" = xyes; then
    wl=$lt_prog_compiler_wl eval LDFLAGS="\"$LDFLAGS $lt_prog_compiler_static\""
    AC_CACHE_CHECK([whether a statically linked program can dlopen itself],
    lt_cv_dlopen_self_static, [dnl
    _LT_AC_TRY_DLOPEN_SELF(
    lt_cv_dlopen_self_static=yes, lt_cv_dlopen_self_static=yes,
    lt_cv_dlopen_self_static=no, lt_cv_dlopen_self_static=cross)
    ])
fi

CPPFLAGS="$save_CPPFLAGS"
LDFLAGS="$save_LDFLAGS"
LIBS="$save_LIBS"
::
esac
case $lt_cv_dlopen_self in
yes|no) enable_dlopen_self=$lt_cv_dlopen_self ;;
*) enable_dlopen_self=unknown ;;
esac

case $lt_cv_dlopen_self_static in
yes|no) enable_dlopen_self_static=$lt_cv_dlopen_self_static ;;
*) enable_dlopen_self_static=unknown ;;
esac
fi
)

# AC_LIBTOOL_DLOPEN_SELF

# AC_LIBTOOL_PROG_CC_C_O([TAGNAME])
# ----------------------------------
# Check to see if options -c and -o are simultaneously supported by compiler
AC_DEFUN([AC_LIBTOOL_PROG_CC_C_O],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_REQUIRE([LT_AC_SYS_COMPILER])dnl
AC_CACHE_CHECK([if $compiler supports -c -o file.$ac_objext],
[_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)],
[_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=no
$rm -r conftest 2>/dev/null
mkdir conftest
cd conftest
mkdir out
echo "$lt_simple_compile_test_code" > conftest.$ac_ext

lt_compiler_flag="-o out/conftest2.$ac_objext"
# Insert the option either (1) after the last *FLAGS variable, or
# (2) before a word containing "conftest.", or (3) at the end.
# Note that $ac_compile itself does not contain backslashes and begins
# with a dollar sign (not a hyphen), so the echo should work correctly.
lt_compile='echo "$ac_compile" | $SED \\
-e s:*FLAGS}\{0,1\} :&$lt_compiler_flag ;; t' \\
-e s: [[^ ]]*conftest\. : $lt_compiler_flag&:: t' \\
-e s: $lt_compiler_flag:"(eval echo \"\$as_me:__oline__: $lt_compile\" >&AS_MESSAGE_LOG_FD)
(eval "$lt_compile" 2>out/conftest.err)
ac_status=$?
cat out/confitest.err >&AS_MESSAGE_LOG_FD
echo "$as_me:__oline__: $? = $ac_status" >&AS_MESSAGE_LOG_FD
if (exit $ac_status) &\& test -s out/conftest2.$ac_objext
then
  # The compiler can only warn and ignore the option if not recognized
  # So say no if there are warnings
  $echo "X$_lt_compiler_boilerplate" | $Xsed -e '/^$/d > out/confitest.exp
$SED '/^$/d; /^ */d out/confitest.err >out/confitest.err2
if test ! -s out/confitest.err2 || diff out/confitest.exp out/confitest.err2 >/dev/null; then

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LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=yes
fi
fi
chmod u+w . 2>&AS_MESSAGE_LOG_FD
rm conftest*
# SGI C++ compiler will create directory out/ii_files/ for
# template instantiation
test -d out/ii_files && rm out/ii_files/* && rmdir out/ii_files
rm out/* && rmdir out
cd ..
rmdir conftest
rm conftest*
)
)

# AC_LIBTOOL_PROG_CC_C_O

# Some checks to see if we can hard link files
# -----------------------------------------
# Check to see if we can do hard links to lock some files if needed
AC_DEFUN([AC_LIBTOOL_SYS_HARD_LINK_LOCKS],
[AC_REQUIRE([LT_AC_LOCK])]
hard_links="nottested"
if test "$LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)" = no && test "$need_locks" != no; then
# do not overwrite the value of need_locks provided by the user
AC_MSG_CHECKING([if we can lock with hard links])
hard_links=yes
rm conftest*
ln conftest.a conftest.b 2>/dev/null && hard_links=no
touch conftest.a
ln conftest.a conftest.b 2>&5 || hard_links=no
ln conftest.a conftest.b 2>/dev/null && hard_links=no
AC_MSG_RESULT([hard_links])
if test "$hard_links" = no; then
   AC_MSG_WARN(["$CC' does not support '-c -o', so 'make -j' may be unsafe])
   need_locks=warn
fi
else
   need_locks=no
fi
)
# AC_LIBTOOL_SYS_HARD_LINK_LOCKS

# AC_LIBTOOL_OBJDIR
# -----------------
AC_DEFUN([AC_LIBTOOL_OBJDIR],
[AC_CACHE_CHECK([for objdir], [lt_cv_objdir],
[rm -f .libs 2>/dev/null

-------------------------
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mkdir .libs 2>/dev/null
if test -d .libs; then
  lt_cv_objdir=.libs
else
  # MS-DOS does not allow filenames that begin with a dot.
  lt_cv_objdir=libs
fi
rmdir .libs 2>/dev/null
}

objdir=$lt_cv_objdir
)

# AC_LIBTOOL_OBJDIR

# AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH([TAGNAME])
# ----------------------------------------------
# Check hardcoding attributes.
AC_DEFUN([AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH], [AC_MSG_CHECKING([how to hardcode library paths into programs])]
  _LT_AC_TAGVAR(hardcode_action, $1)=
  if test -n "$_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)" ||
    test -n "$_LT_AC_TAGVAR(runpath_var, $1)" ||
    test "X$_LT_AC_TAGVAR(hardcode_automatic, $1)" = "Xyes" ; then
    # We can hardcode non-existant directories.
    if test "$_LT_AC_TAGVAR(hardcode_direct, $1)" != no &&
      # If the only mechanism to avoid hardcoding is shlibpath_var, we
      # have to relink, otherwise we might link with an installed library
      # when we should be linking with a yet-to-be-installed one
      ## test "$_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)" != no &&
      test "$_LT_AC_TAGVAR(hardcode_minus_L, $1)" != no; then
        # Linking always hardcodes the temporary library directory.
        _LT_AC_TAGVAR(hardcode_action, $1)=relink
      else
        # We can link without hardcoding, and we can hardcode nonexisting dirs.
        _LT_AC_TAGVAR(hardcode_action, $1)=immediate
      fi
    else
      # We cannot hardcode anything, or else we can only hardcode existing
      # directories.
      _LT_AC_TAGVAR(hardcode_action, $1)=unsupported
    fi
AC_MSG_RESULT([$_LT_AC_TAGVAR(hardcode_action, $1)])

if test "$_LT_AC_TAGVAR(hardcode_action, $1)" = relink; then
  # Fast installation is not supported
  enable_fast_install=no
elsif test "$shlibpath_overrides_runpath" = yes ||
  test "$enable_shared" = no; then
  # Fast installation is not necessary
enable_fast_install=needless
fi
)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH

# AC_LIBTOOL_SYS_LIB_STRIP
# ------------------------
AC_DEFUN([AC_LIBTOOL_SYS_LIB_STRIP],
    [striplib=
    old_striplib=
AC_MSG_CHECKING([whether stripping libraries is possible])
    if test -n "$STRIPE" && $STRIPE -V 2>&1 | grep "GNU strip" >/dev/null; then
        test -z "$old_striplib" && old_striplib="$STRIPE --strip-debug"
        test -z "$striplib" && striplib="$STRIPE --strip-unneeded"
        AC_MSG_RESULT([yes])
    else
        # FIXME - insert some real tests, host_os isn't really good enough
        case $host_os in
            darwin*)
                if test -n "$STRIPE" ; then
                    striplib="$STRIPE -x"
                    old_striplib="$STRIPE -S"
                    AC_MSG_RESULT([yes])
                else
                    AC_MSG_RESULT([no])
                fi
            *)
                AC_MSG_RESULT([no])
                ;;
esac
    fi
)
AC_LIBTOOL_SYS_LIB_STRIP

# AC_LIBTOOL_SYS_DYNAMIC_LINKER
# -----------------------------
# PORTME Fill in your ld.so characteristics
AC_DEFUN([AC_LIBTOOL_SYS_DYNAMIC_LINKER],
    [AC_REQUIRE([LT_AC_PROG_SED])]
AC_MSG_CHECKING([dynamic linker characteristics])
library_names_spec=
libname_spec=lib$name'
soname_spec=
shrext_cmds=".so"
postinstall_cmds=
postuninstall_cmds=
finish_cmds=
finish_eval=
shlibpath_var=
shlibpath_overrides_runpath=unknown
version_type=none
dynamic_linker="$host_os ld.so"
sys_lib_dlsearch_path_spec=plib /usr/lib"
m4_if($1,[],
if test "$GCC" = yes; then
case $host_os in
darwin*) lt_awk_arg="/^libraries:/,/LR/" ;;
*) lt_awk_arg="/^libraries:/" ;;
esac
lt_search_path_spec="$CC -print-search-dirs | awk lt_awk_arg | $SED -e "s/^libraries://" -e "s,=/,/,g"
if echo "$lt_search_path_spec" | grep ':>' >/dev/null ; then
  # if the path contains ";" then we assume it to be the separator
  # otherwise default to the standard path separator (i.e. ";") - it is
  # assumed that no part of a normal pathname contains ";" but that should
  # okay in the real world where ";" in dirpaths is itself problematic.
  lt_search_path_spec='echo "$lt_search_path_spec" | $SED -e 's/;/ /g''
else
  lt_search_path_spec='echo "$lt_search_path_spec" | $SED -e "s/$PATH_SEPARATOR/ /g"'
fi
# Ok, now we have the path, separated by spaces, we can step through it
# and add multilib dir if necessary.
lit_tmp_lit_search_path_spec=
lit_multi_os_dir="$CC SCPPFLAGS SCFLAGS SDLFLAGS -print-multi-os-directory 2>/dev/null"
for lit_sys_path in $lit_search_path_spec; do
  if test -d "$lit_sys_path/lit_multi_os_dir"; then
    lit_tmp_lit_search_path_spec="lit_tmp_lit_search_path_spec $lit_sys_path/lit_multi_os_dir"
  else
    test -d "$lit_sys_path" && \\
lit_tmp_lit_search_path_spec="lit_tmp_lit_search_path_spec $lit_sys_path"
fi
done
lit_search_path_spec="echo $lit_tmp_lit_search_path_spec | awk ' BEGIN {RS=" " ; FS="/|n";} { lt_foo="";
lit_count=0;
for (lit_i = NF; lit_i > 0; lit_i--) {
  if ($lit_i != "" && $lit_i != ".") {
    if ($lit_i == ".") {
      lit_count++;
    } else {
      if (lit_count == 0) {
        lit_foo="/" $lit_i lit_foo;
      } else {
        lit_count--;
      }
    }
  }
}
if (lt_foo != "") { lt_freq[lt_foo]++; }
if (lt_freq[lt_foo] == 1) { print lt_foo; }
"' sys_lib_search_path_spec='echo $lt_search_path_spec'
else
sys_lib_search_path_spec="/lib /usr/lib /usr/local/lib"
fi)
need_lib_prefix=unknown
hardcode_into_libs=no

# when you set need_version to no, make sure it does not cause -set_version
# flags to be left without arguments
need_version=unknown

case $host_os in
aix3*)
  version_type=linux
  library_names_spec=${libname}${release}${shared_ext}$versuffix $libname.a'
  shlibpath_var=LIBPATH
  # AIX 3 has no versioning support, so we append a major version to the name.
  soname_spec=${libname}${release}${shared_ext}$major'
  ;;
aix[[4-9]]*)
  version_type=linux
  need_lib_prefix=no
  need_version=no
  hardcode_into_libs=yes
  if test "$host_cpu" = ia64; then
    # AIX 5 supports IA64
    library_names_spec=${libname}${release}${shared_ext}$major $libname${release}${shared_ext}$versuffix $libname${shared_ext}'
    shlibpath_var=LD_LIBRARY_PATH
    else
      # With GCC up to 2.95.x, collect2 would create an import file
      # for dependency libraries. The import file would start with
      # the line '#! .'. This would cause the generated library to
      # depend on '.', always an invalid library. This was fixed in
      # development snapshots of GCC prior to 3.0.
      case $host_os in
        aix4 | aix4.0[11] | aix4.0[11].*)
          if { echo '#if __GNUC__ > 2 || (__GNUC__ == 2 && __GNUC_MINOR__ >= 97)'
            echo ' yes '
            echo '#endif'; } | ${CC} -E - | grep yes > /dev/null; then

:
else
can_build_shared=no
fi
;;
esac
# AIX (on Power*) has no versioning support, so currently we can not hardcode correct
# soname into executable. Probably we can add versioning support to
# collect2, so additional links can be useful in future.
if test "$aix_use_runtimelinking" = yes; then
# If using run time linking (on AIX 4.2 or later) use lib<name>.so
# instead of lib<name>.a to let people know that these are not
# typical AIX shared libraries.
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
else
# We preserve .a as extension for shared libraries through AIX4.2
# and later when we are not doing run time linking.
library_names_spec='${libname}${release}.a $libname.a'
soname_spec='${libname}${release}${shared_ext}$major'
fi
shlibpath_var=LIBPATH
fi
;;
amigaos*)
library_names_spec='$libname.ixlibrary $libname.a'
# Create ${libname}_ixlibrary.a entries in /sys/libs.
finish_eval='for lib in 'ls $libdir/*.ixlibrary 2>/dev/null'; do libname='$echo "X$lib" | $Xsed -e
'\''s%^.*/\([[^/]]*\)\.ixlibrary$%\1%'\'''; test $rm /sys/libs/${libname}_ixlibrary.a; $show "cd /sys/libs && $LN_S
$lib ${libname}_ixlibrary.a"; cd /sys/libs && $LN_S $lib ${libname}_ixlibrary.a || exit 1; done'
;;
beos*)
library_names_spec='${libname}${shared_ext}'
dynamic_linker="$host_os ld.so"
shlibpath_var=LIBRARY_PATH
;;
bsdi[[45]]*)
version_type=linux
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
finish_cmds='PATH="\$PATH:/sbin" ldconfig $libdir'
shlibpath_var=LD_LIBRARY_PATH

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sys_lib_dlsearch_path_spec="/shlib /usr/lib /usr/local/lib"
# the default ld.so.conf also contains /usr/contrib/lib and
# /usr/X11R6/lib (/usr/X11 is a link to /usr/X11R6), but let us allow
# libtool to hard-code these into programs
::

cygwin* | mingw* | pw32*)
version_type=windows
shrext_cmds=".dll"
need_version=no
need_lib_prefix=no

case $GCC,$host_os in
yes,cygwin* | yes,mingw* | yes,pw32*)
library_names_spec=$libname.dll.a'
# DLL is installed to $(libdir)/../bin by postinstall_cmds
postinstall_cmds='base_file=basename $file'
   dldir=$(dirname $dir)/lib
   test -d $dldir || mkdir -p $dldir
   Sinstall_prog $dir/$libname $dldir/$libname
   chmod a+x $dldir/$libname'
postuninstall_cmds='dldll=$dir/$libname
   $rm $dldll'
shlibpath_overrides_runpath=yes

case $host_os in
cygwin*)
   # Cygwin DLLs use 'cyg' prefix rather than 'lib'
   soname_spec='echo ${libname} | sed -e 's/\lib/cyg/"echo ${release} | $SED -e "s/[.]/-g$/g"$\{versuffix\}$\{shared_ext\}'
   sys_lib_search_path_spec="/usr/lib /lib/w32api /lib /usr/local/lib"
   ;;
   mingw*)
   # MinGW DLLs use traditional 'lib' prefix
   soname_spec='{$libname} $release | $SED -e "s/[.]/-g$/g"$\{versuffix\}$\{shared_ext\}'
   sys_lib_search_path_spec="$CC -print-search-dirs | grep "libraries:" | $SED -e "s/\libraries:/\libraries:/" -e 's=//g''
if echo "$sys_lib_search_path_spec" | grep ':[c-zC-Z]/' >/dev/null; then
   # It is most probably a Windows format PATH printed by
   # mingw gcc, but we are running on Cygwin. Gcc prints its search
   # path with ; separators, and with drive letters. We can handle the
   # drive letters (cygwin fileutils understands them), so leave them,
   # especially as we might pass files found there to a mingw objdump,
   # which wouldn't understand a cygwinified path. Ahh.
   sys_lib_search_path_spec='echo "$sys_lib_search_path_spec" | $SED -e "s/;// g"'
else
   sys_lib_search_path_spec='echo "$sys_lib_search_path_spec" | $SED -e "s/PATH_SEPARATOR//g"

fi

::
pw32*)
# pw32 DLLs use 'pw' prefix rather than 'lib'
library_names_spec="echo ${libname} | sed -e 's/^lib/pw/" | echo ${release} | $SED -e 's/[][.]/-'/g"${versuffix}${shared_ext}"
::
esac
::
*)
library_names_spec='$libname' | echo $release | $SED -e 's/[][.]/-'/g"${versuffix}${shared_ext} $libname.lib'
::
esac
dynamic_linker='Win32 ld.exe'

# FIXME: first we should search . and the directory the executable is in
shlibpath_var=PATH
::

darwin* | rhapsody*)
dynamic_linker="$host_os dyld"
version_type=darwin
need_lib_prefix=no
need_version=no
library_names_spec='$libname$release$versuffix$shared_ext $libname$release$major$shared_ext $libname$shared_ext'
soname_spec='$libname$release$major$shared_ext'
shlibpath_overrides_runpath=yes
shlibpath_var=DYLD_LIBRARY_PATH
shrext_cmds="test .$module = .yes && echo .so || echo .dylib"
m4_if([$1], [], [sys_lib_search_path_spec="$sys_lib_search_path_spec /usr/local/lib"])
sys_lib_dlssearch_path_spec="/usr/local/lib /lib /usr/lib"
::
dgux*)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='$libname$release$shared_ext$versuffix $libname$release$shared_ext$major $libname$shared_ext'
soname_spec='$libname$release$shared_ext$major'
shlibpath_var=LD_LIBRARY_PATH
::

freebsd1*)
dynamic_linker=no
::
freebsd* | dragonfly*)

# DragonFly does not have aout. When/if they implement a new
# versioning mechanism, adjust this.
if test -x /usr/bin/objformat; then
    objformat='/usr/bin/objformat'
else
    case $host_os in
        freebsd[123]*) objformat=aout ;;
        *) objformat=elf ;;
    esac
    version_type=freebsd-$objformat
    case $version_type in
        freebsd-elf*)
            library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$libname${shared_ext}'
            need_version=no
            need_lib_prefix=no
            ;;
        freebsd-*)
            library_names_spec='${libname}${release}${shared_ext}$versuffix $libname${shared_ext}$versuffix'
            need_version=yes
            ;;
        esac
    esac
    shlibpath_var=LD_LIBRARY_PATH
    case $host_os in
        freebsd2*)
            shlibpath_overrides_runpath=yes
            ;;
        freebsd3.[01]*) shlibpath_overrides_runpath=yes
            hardcode_into_libs=yes
            ;;
        freebsd3.[2-9]*) | freebsdelf3.[2-9]*)
            shlibpath_overrides_runpath=no
            hardcode_into_libs=yes
            ;;
        freebsd4.[0-5] | freebsdelf4.[0-5] | freebsd4.1 | freebsdelf4.1)
            shlibpath_overrides_runpath=no
            hardcode_into_libs=yes
            ;;
        *) # from 4.6 on, and DragonFly
            shlibpath_overrides_runpath=yes
            hardcode_into_libs=yes
            ;;
        esac
        ;;
    gnu*)
    version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname$${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
hardcode_into_libs=yes
::

;hpux9* | hpux10* | hpux11*)
# Give a soname corresponding to the major version so that dld.sl refuses to
# link against other versions.
version_type=sunos
need_lib_prefix=no
need_version=no
case $host_cpu in
  ia64*)
    shrext_cmds='.so'
hardcode_into_libs=yes
dynamic_linker="$host_os dld.so"
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname$${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
if test "X$HPUX_IA64_MODE" = X32; then
  sys_lib_search_path_spec="/usr/lib/hpux32 /usr/local/lib/hpux32 /usr/local/lib"
else
  sys_lib_search_path_spec="/usr/lib/hpux64 /usr/local/lib/hpux64"
fi
sys_lib_dlssearch_path_spec=${sys_lib_search_path_spec}
::
hppa*64*)
shrext_cmds='.sl'
hardcode_into_libs=yes
dynamic_linker="$host_os dld.sl"
shlibpath_var=LD_LIBRARY_PATH # How should we handle SHLIB_PATH
shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname$${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
sys_lib_search_path_spec="/usr/lib/pa20_64 /usr/ccs/lib/pa20_64"
sys_lib_dlssearch_path_spec=${sys_lib_search_path_spec}
::
*)
shrext_cmds='.sl'
dynamic_linker="$host_os dld.sl"
shlibpath_var=SHLIB_PATH
shlibpath_overrides_runpath=no  # +s is required to enable SHLIB_PATH
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
${libname}${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'

# HP-UX runs *really* slowly unless shared libraries are mode 555.
postinstall_cmds='chmod 555 $lib'

interix([3-9])*
  version_type=linux
  need_lib_prefix=no
  need_version=no
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
                  ${libname}${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}$major'
  dynamic_linker='Interix 3.x ld.so.1 (PE, like ELF)'
  shlibpath_var=LD_LIBRARY_PATH
  shlibpath_overrides_runpath=no
  hardcode_into_libs=yes

irix5* | irix6* | nonstopux*)
case $host_os in
  nonstopux*) version_type=nonstopux ;;
  *)
if test "$lt_cv_prog_gnu_ld" = yes; then
  version_type=linux
else
  version_type=irix
fi ;;
esac

need_lib_prefix=no
need_version=no
soname_spec='${libname}${release}${shared_ext}$major'
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
                  ${libname}${shared_ext}'
case $host_os in
irix5* | nonstopux*)
  libsuffix= shlibsuff=
  ;;
  *)
case $LD in
  # LD in # libtool.m4 will add one of these switches to LD
  -*32|*-32 "-*melf32bsmip*"-*melf32bsmip ")
  libsuffix= shlibsuff= libmagic=32-bit;;
  -*n32|*-n32 "-*melf32bnmip32*"-*melf32bnmip32 ")
  libsuffix=32 shlibsuff=N32 libmagic=N32;
*-64|*"-64 "|*-melf64bmip|*"-melf64bmip ")
libsuff=64 shlibsuff=64 libmagic=64-bit;;
*) libsuff= shlibsuff= libmagic=never-match;;
esac
;;
esac
shlibpath_var=LD_LIBRARY${shlibsuff}_PATH
shlibpath_overrides_runpath=no
sys_lib_search_path_spec="/usr/lib${libsuff} /lib${libsuff} /usr/local/lib${libsuff}"
sys_lib_dlsearch_path_spec="/usr/lib${libsuff} /lib${libsuff}"
hardcode_into_libs=yes
;;
# No shared lib support for Linux oldld, aout, or coff.
linux*oldld* | linux*aout* | linux*coff*)
dynamic_linker=no
;;
# This must be Linux ELF.
linux* | k*bsd*-gnu)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
finish_cmds='PATH="\$PATH:/sbin" ldconfig -n $libdir'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
# This implies no fast_install, which is unacceptable.
# Some rework will be needed to allow for fast_install
# before this can be enabled.
hardcode_into_libs=yes
# Append ld.so.conf contents to the search path
if test -f /etc/ld.so.conf; then
lt_ld_extra='awk '/^include / { system(sprintf("cd /etc; cat %s 2>/dev/null", \[$]2)); skip = 1; } { if (!skip) print
\[$]0; skip = 0; }' < /etc/ld.so.conf | $SED -e 's/#.*//;/^[ ]*hwcap[ ]/d;s/[:,]/ /g;s/=[^=]*$//;s/=[^= ]* / /g;/^$/d' | tr '\n' '
''
sys_lib_dlsearch_path_spec="/lib /usr/lib $lt_ld_extra"
fi
# We used to test for /lib/ld.so.1 and disable shared libraries on
# powerpc, because MkLinux only supported shared libraries with the
# GNU dynamic linker. Since this was broken with cross compilers,
# most powerpc-linux boxes support dynamic linking these days and
# people can always --disable-shared, the test was removed, and we
# assume the GNU/Linux dynamic linker is in use.

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dynamic_linker='GNU/Linux ld.so'
::

netbsd*)
  version_type=sunos
  need_lib_prefix=no
  need_version=no
  if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${shared_ext}$versuffix'
    finish_cmds='PATH=\$PATH:/sbin ldconfig -m $libdir'
    dynamic_linker='NetBSD (a.out) ld.so'
  else
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
    $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    dynamic_linker='NetBSD ld.elf_so'
  fi
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes
hardcode_into_libs=yes
::

newsos6)
  version_type=linux
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
  $libname${shared_ext}'
  shlibpath_var=LD_LIBRARY_PATH
  shlibpath_overrides_runpath=yes
  ::

to-qnx*)
  version_type=linux
  need_lib_prefix=no
  need_version=no
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
  $libname${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}$major'
  shlibpath_var=LD_LIBRARY_PATH
  shlibpath_overrides_runpath=yes
  ::

openbsd*)
  version_type=sunos
  sys_lib_dlssearch_path_spec="/usr/lib"
  need_lib_prefix=no
  # Some older versions of OpenBSD (3.3 at least) *do* need versioned libs.
  case $host_os in
    openbsd3.3 | openbsd3.3.*) need_version=yes ;;
*) need_version=no ;

esac

library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${shared_ext}$versuffix
finish_cmds="PATH="${PATH}/sbin" ldconfig -m $libdir"
shlibpath_var=LD_LIBRARY_PATH

if test -z ""echo __ELF__ | $CC -E - | grep __ELF__"" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
case $host_os in
  openbsd2.* | openbsd2.*)
    shlibpath_overrides_runpath=no
  ;;
  *)
    shlibpath_overrides_runpath=yes
    ;
    esac
else
    shlibpath_overrides_runpath=yes
fi

os2*)
  libname_spec=$name'
  shrext_cmds=".dll"
  need_lib_prefix=no
  library_names_spec=${libname${shared_ext} $libname.a'
  dynamic_linker='OS/2 ld.exe'
  shlibpath_var=LIBPATH
  ;

osf3* | osf4* | osf5*)
  version_type=osf
  need_lib_prefix=no
  need_version=no
  soname_spec=${libname}${release}${shared_ext}$major'
  library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
  shlibpath_var=LD_LIBRARY_PATH
  sys_lib_search_path_spec="/usr/shlib /usr/ccs/lib /usr/lib/ccmptrs/cc /usr/lib /usr/local/lib /var/shlib"
  sys_lib_dlssearch_path_spec="/sys_lib_search_path_spec"
  ;

rdos*)
  dynamic_linker=no
  ;

solaris*)
  version_type=linux
  need_lib_prefix=no
  need_version=no
library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname$${shared_ext}$'
soname_spec=${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes
hardcode_into_libs=yes
# ldd complains unless libraries are executable
postinstall_cmds='chmod +x $lib'

;;

sunos4*)
  version_type=sunos
  library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${shared_ext}$versuffix'
  finish_cmds=PATH="$PATH:/usr/etc" ldconfig $libdir'
  shlibpath_var=LD_LIBRARY_PATH
  shlibpath_overrides_runpath=yes
  if test "$with_gnu_ld" = yes; then
    need_lib_prefix=no
  fi
  need_version=yes
  ;;

sysv4 | sysv4.3*)
  version_type=linux
  library_names_spec=${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname$${shared_ext}$'
  soname_spec=${libname}${release}${shared_ext}$major'
  shlibpath_var=LD_LIBRARY_PATH
  case $host_vendor in
    sni)
      shlibpath_overrides_runpath=no
      need_lib_prefix=no
      export_dynamic_flag_spec='${wl}-Blargedynsym'
      runpath_var=LD_RUN_PATH
      ;;
    siemens)
      need_lib_prefix=no
      ;;
    motorola)
      need_lib_prefix=no
      need_version=no
      shlibpath_overrides_runpath=no
      sys_lib_search_path_spec='/lib /usr/lib /usr/ccs/lib'
      ;;
    esac
    ;;

sysv4*MP*)
if test -d /usr/nec ;then
    version_type=linux
    library_names_spec='$libname${shared_ext}.${versuffix} $libname${shared_ext}.${major} $libname${shared_ext}'
    soname_spec='$libname${shared_ext}.${major}
    shlibpath_var=LD_LIBRARY_PATH
    fi
    ::

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
    version_type=freebsd-elf
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}${versuffix} ${libname}${release}${shared_ext}
    $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}${major}
    shlibpath_var=LD_LIBRARY_PATH
    hardcode_into_libs=yes
    if test "$with_gnu_ld" = yes; then
        sys_lib_search_path_spec='/usr/local/lib /usr/gnu/lib /usr/ccs/lib /usr/lib /lib'
        shlibpath_overrides_runpath=no
    else
        sys_lib_search_path_spec='/usr/ccs/lib /usr/lib'
        shlibpath_overrides_runpath=yes
        case $host_os in
            sco3.2v5*)
                sys_lib_search_path_spec="$sys_lib_search_path_spec /lib"
            ;;
            esac
            fi
    sys_lib_dlsearch_path_spec='/usr/lib'
    ::

uts4*)
    version_type=linux
    library_names_spec='${libname}${release} ${shared_ext} ${versuffix} ${libname}${release} ${shared_ext} ${major}
    $libname${shared_ext}'
    soname_spec='${libname}${release} ${shared_ext} ${major}
    shlibpath_var=LD_LIBRARY_PATH
    ::

*)
    dynamic_linker=no
    ::
    esac
    AC_MSG_RESULT([$dynamic_linker])
    test "$dynamic_linker" = no && can_build_shared=no

AC_CACHE_VAL([lt_cv_sys_lib_search_path_spec],
variables_saved_for_relink="PATH $shlibpath_var $runpath_var"
if test "$GCC" = yes; then
  variables_saved_for_relink="$variables_saved_for_relink GCC_EXEC_PREFIX COMPILER_PATH"
LIBRARY_PATH"
fi
]# AC_LIBTOOL_SYS_DYNAMIC_LINKER

# _LT_AC_TAGCONFIG
#------------------
AC_DEFUN([_LT_AC_TAGCONFIG],
[AC_REQUIRE([LT_AC_PROG_SED])]
AC_ARG_WITH([tags],
[AC_HELP_STRING([--with-tags@<:@TAGS@:>@],
[include additional configurations @<:@automatic@:>@])],
[tagnames="$withval"])
if test -f "$ltmain" && test -n "$tagnames"; then
  if test ! -f "${ofile}"; then
    AC_MSG_WARN([output file '$ofile' does not exist])
  fi
  if test -z "$LTCC"; then
    eval "'$SHELL ${ofile} --config | grep '^LTCC='"
  if test -z "$LTCFLAGS"; then
    AC_MSG_WARN([output file '$ofile' does not look like a libtool script])
  else
    AC_MSG_WARN([using 'LTCC=$LTCC', extracted from '$ofile'])
  fi
  fi
fi
if test -z "$LTCC"; then
  eval "'$SHELL ${ofile} --config | grep '^LTCFLAGS='"
fi
fi
if test -z "$LTCFLAGS"; then
  eval "'$SHELL ${ofile} --config | grep '^LTCFLAGS='"
fi

# Extract list of available tagged configurations in $ofile.
# Note that this assumes the entire list is on one line.
available_tags='grep "available_tags= " ${ofile} | $SED -e 's/available_tags=\(.*\)/\1/ -e 's\///g'"
lit_save_ifs="IFS=" "$IFS$PATH_SEPARATOR,"
for tagname in $tagnames; do
  IFS="$lit_save_ifs"
  # Check whether tagname contains only valid characters
case "$echo "X$tagname" | $Xsed -e 's:[-ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz1234567890,/:]::g' in 
  ") ;;
  *) AC_MSG_ERROR([invalid tag name: $tagname])
;;
esac

if grep "^# ### BEGIN LIBTOOL TAG CONFIG: $tagname$" < "$ofile" > /dev/null
then
  AC_MSG_ERROR([tag name "$tagname" already exists])
fi

# Update the list of available tags.
if test -n "$tagname";
then
  echo appending configuration tag "$tagname" to $ofile
  case $tagname in
    CXX)
      if test -n "$CXX" && ( test "$CXX" != "Xno" &&
        (test "$CXX" = "Xg++" && 'g++ -v >/dev/null 2>&1' ) ||
        (test "$CXX" != "Xg++")) ; then
        AC_LIBTOOL_LANG_CXX_CONFIG
      else
tagname=""
      fi
    ;;
    F77)
      if test -n "$F77" && test "$F77" != "Xno"; then
        AC_LIBTOOL_LANG_F77_CONFIG
      else
tagname=""
      fi
    ;;
    GCJ)
      if test -n "$GCJ" && test "$GCJ" != "Xno"; then
        AC_LIBTOOL_LANG_GCJ_CONFIG
      else
tagname=""
      fi
    ;;
    RC)
      AC_LIBTOOL_LANG_RC_CONFIG
    ;;
  *)
fi
AC_MSG_ERROR([Unsupported tag name: $tagname])
::
esac

# Append the new tag name to the list of available tags.
if test -n "$tagname" ; then
available_tags="available_tags $tagname"
fi
fi
done
IFS="\lt_save_ifs"

# Now substitute the updated list of available tags.
if eval "sed -e s/available_tags=.*$/available_tags="$available_tags"/' \"$ofile\" > \"${ofile}T\""; then
mv "$ofile" "$ofile"
chmod +x "$ofile"
else
rm -f "$ofile"T
AC_MSG_ERROR([unable to update list of available tagged configurations.])
fi
fi
)}# _LT_AC_TAGCONFIG

# AC_LIBTOOL_DLOPEN
# -----------------
# enable checks for dlopen support
AC_DEFUN([AC_LIBTOOL_DLOPEN],
[AC_BEFORE([0], [AC_LIBTOOL_SETUP])]
)}# AC_LIBTOOL_DLOPEN

# AC_LIBTOOL_WIN32_DLL
# -------------------
# declare package support for building win32 DLLs
AC_DEFUN([AC_LIBTOOL_WIN32_DLL],
[AC_BEFORE([0], [AC_LIBTOOL_SETUP])]
)}# AC_LIBTOOL_WIN32_DLL

# AC_ENABLE_SHARED([DEFAULT])
# ---------------------------
# implement the --enable-shared flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_SHARED],
[define([AC_ENABLE_SHARED_DEFAULT], ifelse($1, no, no, yes))]
AC_ARG_ENABLE([shared],
[AC_HELP_STRING([--enable-shared@<:@=PKGS@:>@])]}
[build shared libraries @:<@default=]AC_ENABLE_SHARED_DEFAULT[:@:@ ]],
[p=${PACKAGE-default}]
case $enableval in
  yes) enable_shared=yes ;;
  no) enable_shared=no ;;
  *)
    enable_shared=no
  # Look at the argument we got. We use all the common list separators.
  IFS="$IFS"; IFS="$IFS $PATH_SEPARATOR,"
  for pkg in $enableval; do
    IFS="$IFS"
    if test "X$pkg" = "X$p"; then
      enable_shared=yes
    fi
  done
  IFS="$IFS"
  ;;
esac],
[enable_shared=]AC_ENABLE_SHARED_DEFAULT)
]# AC_ENABLE_SHARED

# AC_DISABLE_SHARED
# -------------------
# set the default shared flag to --disable-shared
AC_DEFUN([AC_DISABLE_SHARED],
  [AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
  AC_ENABLE_SHARED(no)
]# AC_DISABLE_SHARED

# AC_ENABLE_STATIC([DEFAULT])
# ---------------------------
# implement the --enable-static flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_STATIC],
  [define([AC_ENABLE_STATIC_DEFAULT], ifelse($1, no, no, yes))dnl
  AC_ARG_ENABLE([static],
  [AC_HELP_STRING([--enable-static@:<@PKGS@:@ ]],
  [build static libraries @:<@default=]AC_ENABLE_STATIC_DEFAULT[:@:@ ]],
  [p=${PACKAGE-default}]
case $enableval in
    yes) enable_static=yes ;;
    no) enable_static=no ;;
    *)
      enable_static=no
    # Look at the argument we got. We use all the common list separators.
    IFS="$IFS"; IFS="$IFS $PATH_SEPARATOR,"
  done
  IFS="$IFS"
  ;;
esac],
[enable_static=]AC_ENABLE_STATIC_DEFAULT)
for pkg in $enableval; do
    IFS="$lt_save_ifs"
    if test "X$pkg" = "X$p"; then
        enable_static=yes
    fi
    done
    IFS="$lt_save_ifs"
    ;;
    esac],
    [enable_static=]AC_ENABLE_STATIC_DEFAULT)
})# AC_ENABLE_STATIC

# AC_DISABLE_STATIC
# -------------------
# set the default static flag to --disable-static
AC_DEFUN([AC_DISABLE_STATIC],
    [AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
    AC_ENABLE_STATIC(no)
})# AC_DISABLE_STATIC

# AC_ENABLE_FAST_INSTALL([DEFAULT])
# -------------------------------
# implement the --enable-fast-install flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_FAST_INSTALL],
    [define([AC_ENABLE_FAST_INSTALL_DEFAULT], ifelse($1, no, no, yes))dnl
    AC_ARG_ENABLE([fast-install],
    [AC_HELP_STRING([--enable-fast-install@<:@=PKGS@:>@],
    [optimize for fast installation @<:@default=]AC_ENABLE_FAST_INSTALL_DEFAULT[@:>@]),
    [p=${PACKAGE-default}case $enableval in
    yes) enable_fast_install=yes ;;
    no) enable_fast_install=no ;;
    *)
    enable_fast_install=no
    # Look at the argument we got. We use all the common list separators.
    lt_save_ifs="$IFS"; IFS="[$IFS]SPATH_SEPARATOR,"
    for pkg in $enableval; do
        IFS="$lt_save_ifs"
        if test "X$pkg" = "X$p"; then
            enable_fast_install=yes
        fi
        done
        IFS="$lt_save_ifs"
        ;;
        esac],
    esac]AC_ENABLE_FAST_INSTALL_DEFAULT)
(enable_fast_install=[AC_ENABLE_FAST_INSTALL_DEFAULT])
)

# AC_DISABLE_FAST_INSTALL
# -----------------------
# set the default to --disable-fast-install
AC_DEFUN([AC_DISABLE_FAST_INSTALL],
[AC_BEFORE([$.0],[AC_LIBTOOL_SETUP])]
AC_ENABLE_FAST_INSTALL(no)
)

# AC_LIBTOOL_PICMODE([MODE])
# --------------------------
# implement the --with-pic flag
# MODE is either 'yes' or 'no'. If omitted, it defaults to 'both'.
AC_DEFUN([AC_LIBTOOL_PICMODE],
[AC_BEFORE([$.0],[AC_LIBTOOL_SETUP])]
pic_mode=ifelse($#,1,$1,default)
)

# AC_PROG_EGREP
# -------------
# This is predefined starting with Autoconf 2.54, so this conditional
# definition can be removed once we require Autoconf 2.54 or later.
m4_ifndef([AC_PROG_EGREP], [AC_DEFUN([AC_PROG_EGREP],
[AC_CACHE_CHECK([for egrep], [ac_cv_prog_egrep],
[if echo a | (grep -E '(a|b)') >/dev/null 2>&1
then ac_cv_prog_egrep='grep -E'
else ac_cv_prog_egrep='egrep'
fi]
EGREP=$ac_cv_prog_egrep
AC_SUBST([EGREP])
)])

# AC_PATH_TOOL_PREFIX
# --------------------
# find a file program which can recognize shared library
AC_DEFUN([AC_PATH_TOOL_PREFIX],
[AC_REQUIRES([AC_PROG_EGREP])]
AC_MSG_CHECKING([for $1])
AC_CACHE_VAL(lt_cv_path_MAGIC_CMD,
[case $MAGIC_CMD in
[\/*] |  ?:\[\/\]*
lt_cv_path_MAGIC_CMD="$MAGIC_CMD" # Let the user override the test with a path.
[0-9]*] |
lt_cv_path_MAGIC_CMD="$MAGIC_CMD"
)])
lt_save_MAGIC_CMD="$MAGIC_CMD"
lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
dnl $ac_dummy forces splitting on constant user-supplied paths.
dnl POSIX.2 word splitting is done only on the output of word expansions,
dnl not every word. This closes a longstanding sh security hole.
ac_dummy="ifelse([$2], , $PATH, [$2])"
for ac_dir in $ac_dummy; do
    IFS="$lt_save_ifs"
    test -z "$ac_dir" && ac_dir=.
    if test -f $ac_dir/$1; then
        lt_cv_path_MAGIC_CMD="$ac_dir/$1"
        if test -n "$file_magic_test_file"; then
            case $deplibs_check_method in
            "file_magic "*)
                file_magic_regex='expr "$deplibs_check_method" : "file_magic \(.\)*"'
                MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
                if eval $file_magic_cmd $file_magic_test_file 2> /dev/null |
                $EGREP "$file_magic_regex" > /dev/null; then
                :
            else
                cat <<EOF 1>&2
                *** Warning: the command libtool uses to detect shared libraries,
                *** $file_magic_cmd, produces output that libtool cannot recognize.
                *** The result is that libtool may fail to recognize shared libraries
                *** as such. This will affect the creation of libtool libraries that
                *** depend on shared libraries, but programs linked with such libtool
                *** libraries will work regardless of this problem. Nevertheless, you
                *** may want to report the problem to your system manager and/or to
                *** bug-libtool@gnu.org
                EOF
            fi ;;
        esac
    fi
done
IFS="$lt_save_ifs"
MAGIC_CMD="$lt_save_MAGIC_CMD"
::
esac)
MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
if test -n "$SMAGIC_CMD"; then
    AC_MSG_RESULT($SMAGIC_CMD)
else
AC_MSG_RESULT(no)
fi
)

# AC_PATH_MAGIC
# ------------
# find a file program which can recognize a shared library
AC_DEFFUN([AC_PATH_MAGIC],
[AC_PATH_TOOL_PREFIX(${ac_tool_prefix}file, /usr/bin$PATH_SEPARATOR$PATH)
if test -z "$lt_cv_path_MAGIC_CMD"; then
if test -n "$ac_tool_prefix"; then
AC_PATH_TOOL_PREFIX(file, /usr/bin$PATH_SEPARATOR$PATH)
else
MAGIC_CMD=:
fi
fi
)

# AC_PROG_LD
# --------
# find the pathname to the GNU or non-GNU linker
AC_DEFFUN([AC_PROG_LD],
[AC_ARG_WITH([-with-gnu-ld],
[AC_HELP_STRING([-with-gnu-ld],
[assume the C compiler uses GNU ld @<:@default=no@:>@])]
,test "$withval" = no || with_gnu_ld=yes],
[with_gnu_ld=no])
AC_REQUIRE([LT_AC_PROG_SED])
AC_REQUIRE([AC_PROG_CC])
AC_REQUIRE([AC_CANONICAL_HOST])
AC_REQUIRE([AC_CANONICAL_BUILD])
dnl
ac_prog=ld
if test "$GCC" = yes; then
# Check if gcc -print-prog-name=ld gives a path.
AC_MSG_CHECKING([for ld used by $CC])
case $host in
*-*-mingw*)
# gcc leaves a trailing carriage return which upsets mingw
ac_prog="($CC -print-prog-name=ld) 2>&5 | tr -d \015" ;;
*)
ac_prog="($CC -print-prog-name=ld) 2>&5" ;;
esac
case $ac_prog in
# Accept absolute paths.
[[!V]]* | ?-[[!V]]*)
re_direlt="[[^[!V]]][^[!V]]*\n*/

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# Canonicalize the pathname of ld
ac_prog=`echo $ac_prog | $SED 's%\\%/%g''
while echo $ac_prog | grep "$re_direlt" > /dev/null 2>&1; do
ac_prog=`echo $ac_prog | $SED "s%$re_direlt%/%"`
done
test -z "$LD" && LD="$ac_prog"
;;
"
"
# If it fails, then pretend we aren't using GCC.
acProg=ld
;;
*)
# If it is relative, then search for the first ld in PATH.
with_gnu_ld=unknown
;;
esac
elif test "$with_gnu_ld" = yes; then
AC_MSG_CHECKING([for GNU ld])
else
AC_MSG_CHECKING([for non-GNU ld])
fi
AC_CACHE_VAL(lt_cv_path_LD,
[if test -z "$LD"; then
lt_save_ifs="IFS"; IFS=$PATH_SEPARATOR
for ac_dir in $PATH; do
IFS="$lt_save_ifs"
test -z "$ac_dir" && ac_dir=.
if test -f "$ac_dir/ld" || test -f "$ac_dir/ld$ac_exeext"; then
lt_cv_path_LD="$ac_dir/ld"
# Check to see if the program is GNU ld. I'd rather use --version,
# but apparently some variants of GNU ld only accept -v.
# Break only if it was the GNU/non-GNU ld that we prefer.
case ""$lt_cv_path_LD" -v 2>&1 <</dev/null' in
*GNU* | *with BFD*)
test "$with_gnu_ld" != no && break
;;
*)
test "$with_gnu_ld" != yes && break
;;
esac
fi
done
IFS="$lt_save_ifs"
else
lt_cv_path_LD="$LD" # Let the user override the test with a path.
fi)
LD="$lt_cv_path_LD"
if test -n "$LD"; then
AC_MSG_RESULT(SLD)
else
AC_MSG_RESULT(no)
fi
test -z "SLD" && AC_MSG_ERROR([no acceptable ld found in $PATH])
AC_PROG_LD_GNU
]# AC_PROG_LD

# AC_PROG_LD_GNU
# --------------
AC_DEFUN([AC_PROG_LD_GNU],
[AC_REQUIRE([AC_PROG_EGREP])dnl
AC_CACHE_CHECK([if the linker (LD) is GNU ld], lt_cv_prog_gnu_ld,
[# I'd rather use --version here, but apparently some GNU lds only accept -v.
case '$LD -v 2>&1 </dev/null' in
*GNU* | *'with BFD'*)
lt_cv_prog_gnu_ld=yes
;;
*)
lt_cv_prog_gnu_ld=no
;;
esac)
with_gnu_ld=$lt_cv_prog_gnu_ld
]# AC_PROG_LD_GNU

# AC_PROG_LD_RELOAD_FLAG
# ----------------------
# find reload flag for linker
# -- PORTME Some linkers may need a different reload flag.
AC_DEFUN([AC_PROG_LD_RELOAD_FLAG],
[AC_CACHE_CHECK([for $LD option to reload object files],
[lt_cv_ld_reload_flag,-r])
reload_flag=$lt_cv_ld_reload_flag
case $reload_flag in
"" | " ");;
*) reload_flag=" $reload_flag" ;;
esac
reload_cmds='$LD$reload_flag -o $output$reload_objs'
case $host_os in
darwin*)
  if test "$GCC" = yes; then
    reload_cmds='$LTCC $LTCFLAGS -nostdlib ${wl}-r -o $output$reload_objs'
  else
    reload_cmds='$LD$reload_flag -o $output$reload_objs'
fi


# AC_DEPLIBS_CHECK_METHOD
# ----------------------------------------
# how to check for library dependencies
# -- PORTME fill in with the dynamic library characteristics
AC_DEFUN([AC_DEPLIBS_CHECK_METHOD],
[AC_CACHE_CHECK([how to recognize dependent libraries],
lt_cv_deplibs_check_method,
[lt_cv_file_magic_cmd=$MAGIC_CMD'
lt_cv_file_magic_test_file=,
lt_cv_deplibs_check_method='unknown'
# Need to set the preceding variable on all platforms that support
# interlibrary dependencies.
# 'none' -- dependencies not supported.
# 'unknown' -- same as none, but documents that we really don't know.
# 'pass_all' -- all dependencies passed with no checks.
# 'test_compile' -- check by making test program.
# 'file_magic [regex]' -- check by looking for files in library path
# which responds to the $file_magic_cmd with a given extended regex.
# If you have 'file' or equivalent on your system and you're not sure
# whether 'pass_all' will *always* work, you probably want this one.
case $host_os in
aix[4-9]*)
lt_cv_deplibs_check_method=pass_all
;;;
beos*)
lt_cv_deplibs_check_method=pass_all
;;;
bsdi[45]*)
lt_cv_deplibs_check_method='file_magic ELF [0-9][0-9] *[ML]SB (shared object|dynamic lib)'
lt_cv_file_magic_cmd='/usr/bin/file -L'
lt_cv_file_magic_test_file=/shlib/libc.so
;;;

cygwin*)
# func_win32_libid is a shell function defined in ltmain.sh
lt_cv_deplibs_check_method='file_magic ^x86 archive import|^x86 DLL'
lt_cv_file_magic_cmd='func_win32_libid'
;;;
imgw* | pw32*)

; esac
})# AC_PROG_LD_RELOAD_FLAG
# Base MSYS/MinGW do not provide the 'file' command needed by
# func_win32_libid shell function, so use a weaker test based on 'objdump',
# unless we find 'file', for example because we are cross-compiling.
if (file /) >/dev/null 2>&1; then
    lt_cv_deplibs_check_method='file_magic ^x86 archive import|^x86 DLL'
    lt_cv_file_magic_cmd='func_win32_libid'
else
    lt_cv_deplibs_check_method='file_magic file format pei*-i386(.*architecture: i386)?'
    lt_cv_file_magic_cmd='$OBJDUMP -f'
fi
;

darwin* | rhapsody*)
lc_cv_deplibs_check_method=pass_all
; 

freebsd* | dragonfly*)
if echo __ELF__ | $CC -E - | grep __ELF__ > /dev/null; then
    case $host_cpu in
    i*86)
        # Not sure whether the presence of OpenBSD here was a mistake.
        # Let's accept both of them until this is cleared up.
        lt_cv_deplibs_check_method='file_magic (FreeBSD|OpenBSD|DragonFly)i[[3-9]]86 (compact )?demand paged
        shared library'
        lt_cv_file_magic_cmd=/usr/bin/file
        lt_cv_file_magic_test_file='echo /usr/lib/libc.so.*'
    esac
    else
        lt_cv_deplibs_check_method=pass_all
        fi
    ;

gnu*)
lc_cv_deplibs_check_method=pass_all
; 

hpux11.20* | hpux11*)
lc_cv_file_magic_cmd=/usr/bin/file
case $host_cpu in
    ia64*)
        lt_cv_deplibs_check_method='file_magic (s[[0-9]][[0-9]][[0-9]]|ELF-[0-9][0-9]]) shared object file - IA64'
        lt_cv_file_magic_test_file=/usr/lib/hpux32/libc.so
    ;;
    hppa*64*)
        [lt_cv_deplibs_check_method='file_magic (s[0-9][0-9][0-9][0-9][0-9][0-9]) shared object file - PA-RISC [0-9]
        [0-9]][[0-9]]]
        lt_cv_file_magic_test_file=/usr/lib/pa20_64/libc.sl
//
// *
// lt_cv_deplibs_check_method='file_magic (s[[0-9]][[0-9]][[0-9]][PA-RISC][[0-9]][[0-9]]) shared library'
// lt_cv_file_magic_test_file=/usr/lib/libc.sl
//
// esac
//

interix[[3-9]]*]
#
# PIC code is broken on Interix 3.x, that's why \.a not \_pic\_a here
# This must be Linux ELF.
linux* | k*bsd*-gnu)

newos6*)
lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[ML]]SB (executable|dynamic lib)'
lit_cv_file_magic_cmd=/usr/bin/file
lt_cv_file_magic_test_file=/usr/lib/libnls.so

nto-qnx*)
lit_cv_deplibs_check_method=unknown

openbsd*)
if test -z ""echo __ELF__ | $CC -E - | grep __ELF__"" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then


lt_cv_deplibs_check_method='match_pattern /lib[^/]+(\.[so\.[0-9]+\.[0-9]+|\.[so|_pic\a)$'
else
  lt_cv_deplibs_check_method='match_pattern /lib[^/]+(\.[so\.[0-9]+\.[0-9]+|\.[so|_pic\a)$'
fi

osf3* | osf4* | osf5*)
  lt_cv_deplibs_check_method=pass_all
  ;;

rdos*)
  lt_cv_deplibs_check_method=pass_all
  ;;
solaris*)
  lt_cv_deplibs_check_method=pass_all
  ;;
sysv4 | sysv4.3*)
  case $host_vendor in
    motorola)
      lt_cv_deplibs_check_method='file_magic ELF [[0-9]][0-9]*-bit [[ML]SB (shared object|dynamic lib) M[0-9]][0-9]* Version [[0-9]]'
      lt_cv_file_magic_test_file='echo /usr/lib/libc.so*v'
    ;;
    ncr)
      lt_cv_deplibs_check_method=pass_all
    ;;
    sequent)
      lt_cv_file_magic_cmd='/bin/file'
      lt_cv_deplibs_check_method='file_magic ELF [[0-9]][0-9]*-bit [[LM]SB (shared object|dynamic lib)'
    ;;
    sni)
      lt_cv_file_magic_cmd='/bin/file'
      lt_cv_deplibs_check_method="file_magic ELF [[0-9]][0-9]*-bit [[LM]SB dynamic lib"
      lt_cv_file_magic_test_file=/lib/libc.so
    ;;
    siemens)
      lt_cv_deplibs_check_method=pass_all
    ;;
    pc)
      lt_cv_deplibs_check_method=pass_all
    ;;
    esac
    ;;
sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
  lt_cv_deplibs_check_method=pass_all
esac
::
esac
fi
done
IFS="$lt_save_ifs"
done
test -z "$lt_cv_path_NM" && lt_cv_path_NM=nm
fi)
NM="$lt_cv_path_NM"
})# AC_PROG_NM

# AC_CHECK_LIBM
# --------------
# check for math library
AC_DEFUN([AC_CHECK_LIBM],
[AC_REQUIRE([AC_CANONICAL_HOST])dnl
LIBM=
case $host in
  *-*beos* | *-*cygwin* | *-*pw32* | *-*darwin*)
    # These system don't have libm, or don't need it
    ::
  *-*ncr-sysv4.3*)
    AC_CHECK_LIB(mw, _mwvalidcheckl, LIBM="-lmw")
    AC_CHECK_LIB(m, cos, LIBM="$LIBM -lm")
    ::
  *)
    AC_CHECK_LIB(m, cos, LIBM="-lm")
    ::
esac
})# AC_CHECK_LIBM

# AC_LIBLTDL_CONVENIENCE([DIRECTORY])
# -----------------------------------
# sets LIBLTDL to the link flags for the libltldl convenience library and
# LTDLINCL to the include flags for the libltldl header and adds
# --enable-ltdl-convenience to the configure arguments. Note that
# AC_CONFIG_SUBDIRS is not called here. If DIRECTORY is not provided, # it is assumed to be 'libltdl'. LIBLTDL will be prefixed with
# '${top_builddir}/' and LTDLINCL will be prefixed with '${top_srcdir}/'
# (note the single quotes!). If your package is not flat and you're not
# using automake, define top_builddir and top_srcdir appropriately in
# the Makefiles.
AC_DEFUN([AC_LIBLTDL_CONVENIENCE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
  case $enable_ltdl_convenience in
no) AC_MSG_ERROR([this package needs a convenience libltdl]) ;;
   enable_ltdl_convenience=yes
   ac_configure_args="$ac_configure_args --enable-ltdl-convenience" ;;
esac
LIBLTDL=${top_builddir}/ifelse($#,1,$1,"libltdl")./libltdl.la
LTDLINCL=-I$([top_srcdir]/ifelse($#,1,$1,"libltdl"))
# For backwards non-gettext consistent compatibility...
INCLTDL="$LTDLINCL"
)# AC_LIBLTDL_CONVENIENCE

# AC_LIBLTDL_INSTALLABLE([DIRECTORY])
# -----------------------------------
# sets LIBLTDL to the link flags for the libltdl installable library and
# LTDLINCL to the include flags for the libltdl header and adds
# --enable-ltdl-install to the configure arguments. Note that
# AC_CONFIG_SUBDIRS is not called here. If DIRECTORY is not provided,
# and an installed libltdl is not found, it is assumed to be 'libltdl'.
# LIBLTDL will be prefixed with '${top_builddir}/' and LTDLINCL with
# '${top_srcdir}/' (note the single quotes!). If your package is not
# flat and you're not using automake, define top_builddir and top_sourcedir
# appropriately in the Makefiles.
# In the future, this macro may have to be called after AC_PROG_LIBTOOL.
AC_DEFUN([AC_LIBLTDL_INSTALLABLE],[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_CHECK_LIB(ltdl, lt_dlinit,
   [test x"enable_ltdl_install" != xyes && enable_ltdl_install=no],
   [if test x"enable_ltdl_install" = xyes; then
    AC_MSG_WARN([libltdl not installed, but installation disabled])
   else
    enable_ltdl_install=yes
   fi
   ])
if test x"enable_ltdl_install" = x"yes"; then
   ac_configure_args="$ac_configure_args --enable-ltdl-install"
   LIBLTDL=${top_builddir}/ifelse($#,1,$1,"libltdl")./libltdl.la
   LTDLINCL=-I$([top_srcdir]/ifelse($#,1,$1,"libltdl"))
else
   ac_configure_args="$ac_configure_args --enable-ltdl-install=no"
   LIBLTDL="-lltdl"
   LTDLINCL=
fi
# For backwards non-gettext consistent compatibility...
INCLTDL="$LTDLINCL"
)]# AC_LIBLTDL_INSTALLABLE

# AC_LIBTOOL_CXX
# enable support for C++ libraries
AC_DEFUN([AC_LIBTOOL_CXX],
[AC_REQUIRE([LT_AC_LANG_CXX])]
)# AC_LIBTOOL_CXX

# _LT_AC_LANG_CXX
# ------------
AC_DEFUN([_LT_AC_LANG_CXX],
[AC_REQUIRE([AC_PROG_CXX])
AC_REQUIRE([LT_AC_PROG_CXXCPP])
_LT_AC_SHELL_INIT([tagnames=${tagnames+${tagnames},}CXX])]
)# _LT_AC_LANG_CXX

# _LT_AC_PROG_CXXCPP
# ------------------
AC_DEFUN([_LT_AC_PROG_CXXCPP],
[
AC_REQUIRE([AC_PROG_CXX])
if test -n "SCXX" & & ( test "XSCXX" != "Xno" & &
 ( (test "XSCXX" = "Xg++" & & 'g++ -v >/dev/null 2>&1 ' ) ||
 (test "X$SCXX" != "Xg++") ) ) ; then
AC_PROG_CXXCPP
fi
)]# _LT_AC_PROG_CXXCPP

# AC_LIBTOOL_F77
# ------------
# enable support for Fortran 77 libraries
AC_DEFUN([AC_LIBTOOL_F77],
[AC_REQUIRE([LT_AC_LANG_F77])]
)# AC_LIBTOOL_F77

# _LT_AC_LANG_F77
# ------------
AC_DEFUN([_LT_AC_LANG_F77],
[AC_REQUIRE([AC_PROG_F77])
_LT_AC_SHELL_INIT([tagnames=${tagnames+${tagnames},}F77])]
)# _LT_AC_LANG_F77

# AC_LIBTOOL_GCJ
# ------------
# enable support for GCJ libraries
AC_DEFUN([AC_LIBTOOL_GCJ],
[AC_REQUIRE([LT_AC_LANG_GCJ])]
)
# save warnings/boilerplate of simple test code

AC_LIBTOOL_PROG_COMPILER_NO_RTTI($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)
AC_LIBTOOL_SYS_LIB_STRIP
AC_LIBTOOL_DLOPEN_SELF

# Report which library types will actually be built
AC_MSG_CHECKING([if libtool supports shared libraries])
AC_MSG_RESULT([can_build_shared])

AC_MSG_CHECKING([whether to build shared libraries])
test "$can_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.
case $host_os in
    aix3*)
test "$enable_shared" = yes && enable_static=no
    if test -n "$RANLIB"; then
        archive_cmds="archive_cmds~$RANLIB $lib"
        postinstall_cmds="$RANLIB $lib"
    fi
    ;;
    aix[[4-9]*)
    if test "$host_cpu" != ia64 && test "$aix_use_runtimelinking" = no ; then
        test "$enable_shared" = yes && enable_static=no
    fi
    ;;
esac
AC_MSG_RESULT([enable_shared])

AC_MSG_CHECKING([whether to build static libraries])
# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes
AC_MSG_RESULT([enable_static])

AC_LIBTOOL_CONFIG($1)
AC_LANG_POP
CC="$lt_save_CC"
}# AC_LIBTOOL_LANG_C_CONFIG

# AC_LIBTOOL_LANG_CXX_CONFIG
# --------------------------
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_CXX_CONFIG], [_LT_AC_LANG_CXX_CONFIG(CXX)])
AC_DEFUN([_LT_AC_LANG_CXX_CONFIG], [AC_LANG_PUSH(C++)
AC_REQUIRE([AC_PROG_CXX])
AC_REQUIRE([_LT_AC_PROG_CXXCPP])

_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_lib, $1)=
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
_LT_AC_TAGVAR(hardcode_minus_L, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(hardcode_automatic, $1)=no
_LT_AC_TAGVAR(module_cmds, $1)=
_LT_AC_TAGVAR(module_expsym_cmds, $1)=
_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
_LT_AC_TAGVAR(old_archive_cmds, $1)=old_archive_cmds
_LT_AC_TAGVAR(no_undefined_flag, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no

# Dependencies to place before and after the object being linked:
_LT_AC_TAGVAR(predep_objects, $1)=
_LT_AC_TAGVAR(postdep_objects, $1)=
_LT_AC_TAGVAR(predeps, $1)=
_LT_AC_TAGVAR(postdeps, $1)=
_LT_AC_TAGVAR(compiler_lib_search_path, $1)=
_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)=

# Source file extension for C++ test sources.
ac_ext=cpp
"# Object file extension for compiled C++ test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext"

"# Code to be used in simple compile tests
lt_simple_compile_test_code="int some_variable = 0;"

"# Code to be used in simple link tests
lt_simple_link_test_code='int main(int, char *[[[]]]) { return(0); }'

"# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER"

"# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE"

"# Allow CC to be a program name with arguments.
lt_save_CC=$CC
lt_save_LD=$LD
lt_save_GCC=$GCC
GCC=$GXX
lt_save_with_gnu_ld=$with_gnu_ld
lt_save_path_LD=$lt_cv_path_LD
if test -n "{lt_cv_prog_gnu_ldcxx+set}"; then
  lt_cv_prog_gnu_ld=$lt_cv_prog_gnu_ldcxx
else
  $as_unset lt_cv_prog_gnu_ld
fi
if test -n "{lt_cv_path_LDCXX+set}"; then
  lt_cv_path_LD=$lt_cv_path_LDCXX
else
  $as_unset lt_cv_path_LD
fi
test -z "{LDCXX+set}" || LD=$LDCXX
CC=${CXX-"c++"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])"

"# We don't want -fno-exception wen compiling C++ code, so set the
# no_builtin_flag separately
if test "$GXX" = yes; then
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=-fno-builtin'
else
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=""
fi"
if test "$GXX" = yes; then
    # Set up default GNU C++ configuration

    AC_PROG_LD

    # Check if GNU C++ uses GNU ld as the underlying linker, since the
    # archiving commands below assume that GNU ld is being used.
    if test "-wewith_gnu_ld" = yes; then
        AC_DEFINE(ARCHIVE_COMMANDS, "gcc -shared -nostdlib $predep_objects $libobjs $deplibs
        $postdep_objects $compiler_flags $wl-soname $wl$soname -o $lib"
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib $predep_objects $libobjs $deplibs
        $postdep_objects $compiler_flags $wl-soname $wl$soname $wl-retnain-symbols-file $wl$export_symbols -o $lib"

        _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$wlarc"--whole-archive $wlarc"--no-whole-archive"
    else
        with_gnu_ld=no
        wlarc=
    fi

    # A generic and very simple default shared library creation
    # command for GNU C++ for the case where it uses the native
    # linker, instead of GNU ld. If possible, this setting should
    # overridden to take advantage of the native linker features on
    # the platform it is being used on.
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib $predep_objects $libobjs $deplibs
    $postdep_objects $compiler_flags -o $lib"

    # Commands to make compiler produce verbose output that lists
    # what "hidden" libraries, object files and flags are used when
    # linking a shared library.
    output_verbose_link_cmd="$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "-L""
else
GXX=no
with_gnu_id=no
wlarc=
fi

# PORTME: fill in a description of your system's C++ link characteristics
AC_MSG_CHECKING([whether the $compiler linker ($LD) supports shared libraries])
_LT_AC_TAGVAR(ld_shlibs, $1)=yes
case $host_os in
 aix3*)
   # FIXME: insert proper C++ library support
   _LT_AC_TAGVAR(ld_shlibs, $1)=no
   ;;
   aix[[4-9]/*)
     if test "$host_cpu" = ia64; then
       # On IA64, the linker does run time linking by default, so we don't
       # have to do anything special.
       aix_use_runtimelinking=no
       exp_sym_flag='-Bexport'
       no_entry_flag=""
     else
       aix_use_runtimelinking=no
     fi
     # Test if we are trying to use run time linking or normal
     # AIX style linking. If -brtl is somewhere in LDFLAGS, we
     # need to do runtime linking.
     case $host_os in
     aix4.[[23]].aix4.[[23]].*[aix[[5-9]/*)
       for ld_flag in $LDFLAGS; do
         case $ld_flag in
         *-brtl*)
           aix_use_runtimelinking=yes
           break
         ;;
         esac
         done
         ;;
       esac
     exp_sym_flag='-bexport'
     no_entry_flag='-bnoentry'
     fi

# When large executables or shared objects are built, AIX ld can
# have problems creating the table of contents. If linking a library
# or program results in "error TOC overflow" add -mminimal-toe to
# CXXFLAGS/CFLAGS for g++/gcc. In the cases where that is not
# enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.
if test "SGXX" = yes; then
case $host_os in
  aix4.012|aix4.012.*)
  # We only want to do this on AIX 4.2 and lower, the check
  # below for broken collect2 doesn't work under 4.3+
collect2name='${CC} -print-prog-name=collect2'
  if test -f "$collect2name" && strings "$collect2name" | grep resolve_lib_name >/dev/null
  then
    # We have reworked collect2
    :
  else
    # We have old collect2
    _LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
    # It fails to find uninstalled libraries when the uninstalled
    # path is not listed in the libpath. Setting hardcode_minus_L
    # to unsupported forces relinking
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
  fi
else
  esac
  shared_flag='-shared'
  if test "$aix_use_runtimelinking" = yes; then
    shared_flag="$shared_flag "$wl-G"
  fi
else
  # not using gcc
  if test "$host_cpu" = ia64; then
    # VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
    # chokes on -Wl,-G. The following line is correct:
    shared_flag='-G'
  else
    if test "$aix_use_runtimelinking" = yes; then
      shared_flag="$wl-G"
    else
      shared_flag="$wl-bM:SRE"
    fi
  fi
fi
fi
fi
fi

# It seems that -bexpall does not export symbols beginning with
 underscore (_), so it is better to generate a list of symbols to export.

if test "$aix_use_runtimelinking" = yes; then
# Warning - without using the other runtime loading flags (-brtl),
# -berok will link without error, but may produce a broken library.
_LT_AC_TAGVAR(allow_undefined_flag, $1)='-berok'
# Determine the default libpath from the value encoded in an empty executable.
_LT_AC_SYS_LIBPATH_AIX
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-blibpath:$libdir:'"$aix_libpath"

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC" -o $output_objdir/$soname $libobjs $deplib
"$wl$no_entry_flag" $compiler_flags $allow_undefined_flag'
else
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='"-R $libdir:/usr/lib:/lib"
_LT_AC_TAGVAR(allow_undefined_flag, $1)='-z nodefs'
_LT.AC_TAGVAR(archive_expsym_cmds, $1)='$CC $shared_flag' -o $output_objdir/$soname $libobjs $deplib
"$wl$no_entry_flag" $compiler_flags $allow_undefined_flag'
"$wl$exp_sym_flag:$export_symbols$shared_flag"
else
# Determine the default libpath from the value encoded in an empty executable.
_LT.AC_SYS_LIBPATH_AIX
_LT.AC_TAGVAR(hardcode_libdir_flag_spec, $1)='"$wl-libpath:$libdir"'
# Warning - without using the other run time loading flags,
# -berok will link without error, but may produce a broken library.
_LT.AC_TAGVAR(allow_undefined_flag, $1)=' $wl-bernotok'
_LT.AC_TAGVAR(allow_undefined_flag, $1)=' $wl-berok'
# Exported symbols can be pulled into shared objects from archives
_LT.AC_TAGVAR(whole_archive_flag_spec, $1)='$convenience'
_LT.AC_TAGVAR(archive_cmds_need_lc, $1)='yes
# This is similar to how AIX traditionally builds its shared libraries.
_LT.AC_TAGVAR(archive_cmds, $1)='$CC -nostart $libobjs $deplib $compilerflags $allow_undefined_flag' -bE:$export_symbols$allow_undefined_flag' -AR $AR_FLAGS
put_objdir/$libname$release.a $output_objdir/$soname'
fi
fi
;

beos*)
if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
_LT.AC_TAGVAR(allow_undefined_flag, $1)=unsupported
# Joseph Beckenbach <jrb3@best.com> says some releases of gcc
# support --undefined. This deserves some investigation. FIXME
_LT.AC_TAGVAR(archive_cmds, $1)='$CC -nostart $libobjs $deplib $compilerflags $allow_undefined_flag' -bE:$export_symbols$allow_undefined_flag' -AR $AR_FLAGS
put_objdir/$libname$release.a $output_objdir/$soname'
else
_LT.AC_TAGVAR(ld_shlibs, $1)=no
chorus*)
    case $cc_basename in
      *)
        # FIXME: insert proper C++ library support
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
        ;;
        esac
        ;;

cygwin* | mingw* | pw32*)
    # _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) is actually meaningless,
    # as there is no search path for DLLs.
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=L$libdir'
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
    _LT_AC_TAGVAR(always_export_symbols, $1)=no
    _LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes

    if $LD --help 2>&1 | grep 'auto-import' > /dev/null; then
      _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -o $output_objdir/$soname $[wl1]--enable-auto-image-base -Xlinker --out-implib -Xlinker $lib'
        # If the export-symbols file already is a .def file (1st line
        # is EXPORTS), use it as is; otherwise, prepend...
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)="if test "x$SED 1q $export_symbols" = xEXPORTS; then cp $export_symbols $output_objdir/$soname.def; else echo EXPORTS > $output_objdir/$soname.def; cat $export_symbols >> $output_objdir/$soname.def; fi -
      SCC -shared -nostdlib $output_objdir/$soname.def $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -o $output_objdir/$soname $[wl1]--enable-auto-image-base -Xlinker --out-implib -Xlinker $lib' else
      _LT_AC_TAGVAR(ld_shlibs, $1)=no
    fi
    ;;
  darwin* | rhapsody*)
    _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
    _LT_AC_TAGVAR(hardcode_direct, $1)=no
    _LT_AC_TAGVAR(hardcode_automatic, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$
    _LT_AC_TAGVAR(link_all_deplibs, $1)=yes
    _LT_AC_TAGVAR(allow_undefined_flag, $1)="$lt_dar_allow_undefined"
    if test "$GXX" = yes ; then
      output_verbose_link_cmd='echo'
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -dynamiclib $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags -install_name $rpath/$soname $verstring $lt_dar_single_mod$[._lt_dsymutil]"

_LT_AC_TAGVAR(module_cmds, $1)="$CC $allow_undefined_flag -o $lib -bundle $libobjs $deplibs $compiler_flags$[._lt_dsymutil]"

_ LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed 's,^,_,.' < $export_symbols >
$output_objdir/$libname.-symbols.expsym~$CC -dynamiclib $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags -install_name $rpath/$soname $verstring $lt_dar_single_mod$[._lt_dar_export_syms]$[._lt_dsymutil]"

_ LT_AC_TAGVAR(module_expsym_cmds, $1)="sed -e 's,^,_,.' < $export_symbols >
$output_objdir/$libname.-symbols.expsym~$CC $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags$[._lt_dar_export_syms]$[._lt_dsymutil]"

if test "$lt_cv_apple_cc_single_mod" != "yes"; then

_ LT_AC_TAGVAR(archive_cmds, $1)="$CC -r -keep_privateExterns -nostdlib -o $lib-master.o $libobjs $CC -dynamiclib $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags -install_name $rpath/$soname $verstring$[._lt_dsymutil]"

_ LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed 's,^,_,.' < $export_symbols >
$output_objdir/$libname.-symbols.expsym~$CC $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags $[._lt_dar_export_syms]$[._lt_dsymutil]"

fi

else

case $cc_basename in
xlc*)

output_verbose_link_cmd='echo'

_ LT_AC_TAGVAR(archive_cmds, $1)="$CC -qmkshrobj $wl-single_module $allow_undefined_flag -o $lib $libobjs $deplibs $ccCompiler_flags $[wl]-install_name $rpath/$soname $xlcverstring"

_ LT_AC_TAGVAR(module_cmds, $1)="$CC $allow_undefined_flag -o $lib -bundle $libobjs $deplibs $ccCompiler_flags"

# Don't fix this by using the ld -exported_symbols_list flag, it doesn't exist in older darwin lds

_ LT_AC_TAGVAR(archive_cmds, $1)="sed -e 's,^,_,.' -e "s,^\[\],_,.' -e "s,\([^\\(]*\),_,.' < $export_symbols > $output_objdir/$libname.-symbols.expsym~$CC -qmkshrobj $wl-single_module $allow_undefined_flag -o $lib $libobjs $deplibs $ccCompiler_flags $[wl]-install_name $rpath/$soname $xlcverstring-nmedit -s $output_objdir/$libname.-symbols.expsym $[lib]'

_ LT_AC_TAGVAR(module_cmds, $1)="sed -e 's,^,_,.' -e "s,^\[\],_,.' -e "s,\([^\\(]*\),_,.' < $export_symbols > $output_objdir/$libname.-symbols.expsym~$CC $allow_undefined_flag -o $lib -bundle $libobjs $deplibs $ccCompiler_flags-nmedit -s $output_objdir/$libname.-symbols.expsym $[lib]'

::
)

_ LT_AC_TAGVAR(ld_shlibs, $1)=no

::
esac
fi

::

dgux*)
case $cc_basename in
ec++)

# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
::
    ghcx*)
# Green Hills C++ Compiler
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
::
  *)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
::
esac
::
freebsd[[12]]*
# C++ shared libraries reported to be fairly broken before switch to ELF
_LT_AC_TAGVAR(ld_shlibs, $1)=no
::
freebsd-elf*)
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
::
freebsd* | dragonfly*)
# FreeBSD 3 and later use GNU C++ and GNU ld with standard ELF
# conventions
_LT_AC_TAGVAR(ld_shlibs, $1)=yes
::
gnu*)
::
hpux9*)
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes # Not in the search PATH,
# but as the default
# location of the library.

case $cc_basename in
  CC*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
::
aCC*)
_LT_AC_TAGVAR(archive_cmds, $1)='${rm Soutput_objdir/$soname~$CC -b $[wl]+b $[wl]$install_libdir -o $output_objdir/$soname $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags~test $output_objdir/$soname = $lib || mv $output_objdir/$soname $lib'
# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.

templist='($CC -b $CFLAGS -v conftest.$objext 2>&1) grep "[-]L"'; list=""; for z in $templist; do case $z in conftest.$objext) list="$list $z";; *.$objext);; *) list="$list $z";; esac; done; echo $list

if test "$GXX" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$CC -shared -nostdlib -fPIC $[wl]~b $[wl]install_libdir -o $output_objdir/$soname $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags~test $output_objdir/$soname = $lib || mv $output_objdir/$soname $lib'
else
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

if test $with_gnu_ld = no; then
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
    case $host_cpu in
        hppa*64*|ia64*)
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b $[wl]$libdir'
        _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
        ;;
    esac
else
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
fi

if test $with_gnu_ld = no; then
    _LT_AC_TAGVAR(hardcode_direct, $1)=no
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ;;
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes # Not in the search PATH,
    # but as the default
    # location of the library.
    ;;
    esac

    case $cc_basename in
        CC*)
        # FIXME: insert proper C++ library support
case $host_cpu in
    hppa*64*)
        __LT_AC_TAGVAR(archive_cmds, $1)="CC -b $wl+h $wl$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags"
    ;;
    ia64*)
        __LT_AC_TAGVAR(archive_cmds, $1)="CC -b $wl+h $wl$soname $wl$nodefaultpath -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags"
    ;;
    *)
        __LT_AC_TAGVAR(archive_cmds, $1)="CC -b $wl+h $wl$soname $wl+b $wl$install_libdir -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags"
    ;;
    esac
# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd="templist=$(CC -b $CFLAGS -v conftest.$objext 2>&1) | grep "\-L"; list=""; for z in $templist; do case $z in conftest.$objext) list="$list $z";; *.objext)) list="$list $z";; esac; done; echo $list"
    ;;
    *)
      if test "$GXX" = yes; then
        if test $with_gnu_ld = no; then
          case $host_cpu in
            hppa*64*)
              __LT_AC_TAGVAR(archive_cmds, $1)="CC -shared -nostdlib -fPIC $wl+h $wl$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags"
            ;;
            ia64*)
              __LT_AC_TAGVAR(archive_cmds, $1)="CC -shared -nostdlib -fPIC $wl+h $wl$soname $wl$nodefaultpath -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags"
            ;;
            *)
              __LT_AC_TAGVAR(archive_cmds, $1)="CC -shared -nostdlib -fPIC $wl+h $wl$soname $wl+b $wl$install_libdir -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags"
            ;;
              esac
          fi
        else
          # FIXME: insert proper C++ library support
          return
        fi
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

if test "$GXX" = yes; then
  if test "Swith_gnu_ld" = no; then
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib $predep_objects $libobjs $deplibs $compiler_flags $[wl]-h,$soname $[wl]--image-base,'expr $(RANDOM-$$) % 4096 / 2 * 2**262144 + 1342177280 -o $lib'
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $pic_flag $libobjs $deplibs $compiler_flags $[wl]-h,$soname $[wl]--image-base,'expr $(RANDOM-$$) % 4096 / 2 * 2**262144 + 1342177280 -o $lib'
    else
      else
    fi
  fi
fi

# Hack: On Interix 3.x, we cannot compile PIC because of a broken gcc.
# Instead, shared libraries are loaded at an image base (0x10000000 by
# default) and relocated if they conflict, which is a slow very memory
# consuming and fragmenting process. To avoid this, we pick a random,
# 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at link
# time. Moving up from 0x10000000 also allows more sbkr(2) space.

# Archives containing C++ object files must be created using
# "CC -ar", where "CC" is the IRIX C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.

# SGI C++

irix5* | irix6*)
case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -all -multigot $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -soname $soname $[wl]--test-n "$verstring" &-& echo $[wl]-set_version $verstring' -o $lib'
    _LT_AC_TAGVAR(old_archive_cmds, $1)="$CC -ar -WR,-u -o $oldlib $oldobjs'
    )
if test "$SGXX" = yes; then
  if test "Swith_gnu_ld" = no; then
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $[wl]$soname $[wl]--test-n "$verstring" &-& echo $[wl]-set_version $[wl]-$soname $[wl]--update_registry $[output_objdir]/so_locations -o $lib'
    else
      else
    fi
  fi
fi
fi

_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
;;
esac

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
;;
linux* | k*b*bsd*-gnu)
case $cc_basename in
  KCC*)
    # Kuck and Associates, Inc. (KAI) C++ Compiler

    # KCC will only create a shared library if the output file
    # ends with ",so" (or ",sl" for HP-UX), so rename the library
    # to its proper name (with version) after linking.
    _LT_AC_TAGVAR(archive_cmds, $1)="tempext='echo $shared_ext | $SED -e 's/(^[^0-9A-Za-z_-][^0-9A-Za-z_\[\]]\)/\\\1/g'"
    templib='echo $lib | $SED -e "s/$\{tempext\}$/.*.so/"'; $CC $predep_objects $libobjs $deplibs $postdep_objects
    $compiler_flags --soname $soname -o $templib; mv $templib $lib'

    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="tempext='echo $shared_ext | $SED -e 's/(^[^0-9A-Za-z_-][^0-9A-Za-z_\[\]]\)/\\\1/g'"
    templib='echo $lib | $SED -e "s/$\{tempext\}$/.*.so/"'; $CC $predep_objects $libobjs $deplibs
    $postdep_objects $compiler_flags --soname $soname -o $templib $\\-retain-symbols-file,$export_symbols; mv $templib $lib'

    # Commands to make compiler produce verbose output that lists
    # what "hidden" libraries, object files and flags are used when
    # linking a shared library.

    #
    # There doesn't appear to be a way to prevent this compiler from
    # explicitly linking system object files so we need to strip them
    # from the output so that they don't get included in the library
    # dependencies.
    output_verbose_link_cmd="templist='$CC $CFLAGS -v conftest.$objext -o libconftest$shared_ext 2>&1 | grep
                   "ld'"; rm -f libconftest$shared_ext; list=""; for z in $templist; do case $z in
                   conftest.$objext) list="list $z";;
                   *.$objext;) list="list $z":esac; done; echo $list'

    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

    # Archives containing C++ object files must be created using
    # "CC -Bstatic", where "CC" is the KAI C++ compiler.
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -Bstatic -o libconftest$shared_ext 2>&1 | grep
                   "ld'"; rm -f libconftest$shared_ext; list=""; for z in $templist; do case $z in
                   conftest.$objext) list="list $z";;
                   *.$objext;) list="list $z":esac; done; echo $list'

    # Archives containing C++ object files must be created using
    # "CC -Bstatic", where "CC" is the KAI C++ compiler.
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -Bstatic -o libconftest$shared_ext 2>&1 | grep
                   "ld'"; rm -f libconftest$shared_ext; list=""; for z in $templist; do case $z in
                   conftest.$objext) list="list $z";;
                   *.$objext;) list="list $z":esac; done; echo $list'

# Intel C++

with_gnu_id=yes

# version 8.0 and above of icpc choke on multiply defined symbols
# if we add $predep_objects and $postdep_objects, however 7.1 and
# earlier do not add the objects themselves.
case 'SCC -V 2>&1' in

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**Version 7.**

```bash
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $wl$soname -o $lib"

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $wl$soname $[wl]-retain-symbols-file $wl$export_symbols -o $lib"

; ;

*) # Version 8.0 or newer

tmp_idyn=

case $host_cpu in
  ia64*) tmp_idyn=-i_dynamic";;
  esac

_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared"$tmp_idyn" "$libobjs $deplibs $compiler_flags $[wl]-soname $wl$soname -o $lib"

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared"$tmp_idyn" "$libobjs $deplibs $compiler_flags $[wl]-soname $wl$soname $[wl]-retain-symbols-file $wl$export_symbols -o $lib"

; ;

esac

_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'

_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'

_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive$convenience ${wl}--no-whole-archive' for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-whole-archive'

; ;

gcc* | gcpp*)

  # Portland Group C++ compiler

_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $pic_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $wl$soname -o $lib"

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $pic_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $wl$soname $[wl]-retain-symbols-file $wl$export_symbols -o $lib"

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-rpath $libdir'

_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'

_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' ${wl}--no-whole-archive'

; ;

cxxx*)

  # Compaq C++

_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $wl$soname -o $lib"

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $[wl]-soname $wl$soname $[wl]-retain-symbols-file $wl$export_symbols -o $lib"

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=$[wl]-rpath $[wl]$libdir'

_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=${wl}-export-dynamic'

_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=$[wl]--whole-archive""; do test -n "$conv" && new_convenience="$new_convenience,$conv"; done; $echo "$new_convenience"' $[wl]--no-whole-archive'

; ;

runpath_var=LD_RUN_PATH

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-rpath $libdir'

_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
```

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# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist='echo $CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "ld"'; templist=`echo $templist | $SED "s/\(^.*ld.*\)\( .*/ld .*$\)/\1/"`; for z in $templist; do case $z in conftest.$objext) list="$list $z"; esac; done; echo $list';; *

; esac

; esac

; esac

; esac

case `echo $CC -V 2>&1 | sed 5q` in
  *Sun\ C*)
    # Sun C++ 5.9
    _LT_AC_TAGVAR(no_undefined_flag, $1)=`-zdefs`
    _LT_AC_TAGVAR(archive_cmds, $1)=`$CC -G${allow_undefined_flag} -h$soname -o $lib $predep_objects $libobjs $postdep_objects $compiler_flags`
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)=`$CC -G${allow_undefined_flag} -h$soname -o $lib $predep_objects $libobjs $deplib $postdep_objects $compiler_flags $wl-
      retain-symbols-file $wl```
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive
      --no-whole-archive'

    # Not sure whether something based on
    # $CC $CFLAGS -v conftest.$objext -o libconftest$shared_ext 2>&1
    # would be better.
    output_verbose_link_cmd='echo'

    # Archives containing C++ object files must be created using
    # "CC -xar", where "CC" is the Sun C++ compiler. This is
    # necessary to make sure instantiated templates are included
    # in the archive.
    _LT_AC_TAGVAR(old_archive_cmds, $1)=`$CC -xar -o $oldlib $oldobjs'

    esac

    esac

    esac

    esac

  *lynxos*)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no

    esac

  *m88k*)
    # FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
::
mvs*)
case $cc_basename in
cxx*)
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
::
  *
) # FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
::
esac
::
etbsd*)
if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
  _LT_AC_TAGVAR(archive_cmds, $1)="$LD -Bshareable -o $lib $predep_objects $libobjs $deplibs
Spostdep_objects $linker_flags'
    wlrarc=
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-$R$libdir'
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
fi
# Workaround some broken pre-1.5 toolchains
output_verbose_link_cmd='echo
  
openbsd2*)
  # C++ shared libraries are fairly broken
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
::
openbsd*)
if test -f /usr/libexec/ld.so; then
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $pic_flag $predep_objects $libobjs $deplibs
Spostdep_objects $compiler_flags -o $lib'
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$W{l}l-rpath,$libdir'
    if test -z "$echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpe"; then
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $pic_flag $predep_objects $libobjs $deplibs
Spostdep_objects $compiler_flags $W{l}l-retain-symbols-file,$export_symbols -o $lib'
    _LT_AC_TAGVAR(wholc Archive_flag Spec, $1)="W{l}larc"--whole-archive$convenience "$W{l}larc"--no-whole-
archive'
      fi
    else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
case $cc_basename in
  KCC*)
    # Kuck and Associates, Inc. (KAI) C++ Compiler

    # KCC will only create a shared library if the output file
    # ends with ".so" (or ".sl" for HP-UX), so rename the library
    # to its proper name (with version) after linking.
    _LT_AC_TAGVAR(archive_cmds, $1)="tempext="echo $shared_ext | $SED -e "s/\([\^()0-9A-Za-z{}]\)/\\\1/g"; templib="echo $lib | $SED -e "s/$\{tempext\}\.*.so/"; $CC $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags --soname $soname -o $templib; mv $templib $lib"

    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

    # Archives containing C++ object files must be created using
    # "CC -Bstatic", where "CC" is the KAI C++ compiler.
    _LT_AC_TAGVAR(old_archive_cmds, $1)="$CC -Bstatic -o $oldlib $oldobjs"

    ;;
    RCC*)
    # Rational C++ 2.4.1
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
    cxx*)
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved ${wl}*
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $soname $soname test -n "$verstring" && echo $wl-set_version $verstring -update_registry $output_objdir/so_locations -o $lib"

    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

    # Commands to make compiler produce verbose output that lists
    # what "hidden" libraries, object files and flags are used when
    # linking a shared library.
    #
    # There doesn't appear to be a way to prevent this compiler from
    # explicitly linking system object files so we need to strip them
    # from the output so that they don't get included in the library
    # dependencies.
    outputVerboseLinkCmd=templist="$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "ld" | grep -v "ld:"); templist='echo $templist | $SED "s/^[^()]*Id.*/\1/"'; list=""; for z in $templist; do case $z in
        conftest.$objext) list="$list $z"; esac; done; echo $list'
    ;;
if test "SGXX" = yes && test "$GXX" = no; then
  _LT_AC_TAGVAR(allow_undefined_flag, $1)='-w -expect_unresolved $w1\n'
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $allow_undefined_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $soname $verstring -o $lib'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=''
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)='\n'
else
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "\n-L"'

# Kuck and Associates, Inc. (KAI) C++ Compiler

# KCC will only create a shared library if the output file
# ends with ".so" (or ".sl" for HP-UX), so rename the library
# to its proper name (with version) after linking.
_output_cmd="tempext=`echo $shared_ext | tr -d '[^\w]$'`; 
  tempdir=`echo $lib | tr -d '[^\w]`; 
  $CC -o $oldlib $oldobjs $oldlibobjs $deplibs $postdep_objects $compiler_flags --soname $soname -o \$tempdir\n; 
  mv \$tempdir$lib\n"

# Archives containing C++ object files must be created using
# the KAI C++ compiler.
_output_cmd="$CC -o $oldlib $oldlibobjs\n"

# Rational C++ 2.4.1
# FIXME: insert proper C++ library support
_output_cmd="$CC -o $oldlib $oldlibobjs\n"

if test "$GXX" = yes && test "$with_gnu_ld" = no; then
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved ${wl}\n'
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $allow_undefined_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $wl-soname $wl-soname $wl-update_registry $wl-output_objdir/$wl-so_locations -o $wl-lib'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
else
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared\${allow_undefined_flag} $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -msym -soname $name 'test -n "$verstring" && echo -set_version $verstring' -update_registry $\{output_objdir\}/so_locations -o $lib"

_LT_AC_TAGVAR(archive_execsym_cmds, $1)="for i in `cat $export_symbols`; do printf "\"%s \%s\n\" -exported_symbol "$i" >> $lib.exp; done~
echo "-hidden">> $lib.exp~
$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -msym -soname $name -Wl,input -Wl,$lib.exp 'test -n "$verstring" && echo -set_version$verstring' -update_registry $\{output_objdir\}/so_locations -o $lib~
$rm $lib.exp"

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='"-rpath $libdir"
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist="$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "ld" grep -v "ld:"; templist=`echo $templist | $SED "s/(^.*ld.*$)\( .*ld.*\)/\1/"; for z in $templist; do case $z in
conftest.$objext) list="$list $z";; *
.$objext) ;; *) list="$list $z"; esac; done; echo $list'

if test "$GXX" = yes && test "$with_gnu_ld" = no; then
  _LT_AC_TAGVAR(allow_undefined_flag, $1)="${wl}-expect_unresolved ${wl}";
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -nostdlib ${allow_undefined_flag} $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags $\{wl\}-msym $\{wl\}-soname $\{wl\}\$name 'test -n "$verstring" && echo $\{wl\}-set_version $\{wl\}\$verstring' $\{wl\}\$updateRegistry $\{wl\}\$\{output_objdir\}\so_locations -o $\{wl\}\$lib"
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

else
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

::
esac
::
psos*)
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;

  sunos4*)
  case $cc_basename in
    CC*)
    # Sun C++ 4.x
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
    lcc*)
    # Lucid
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
    *)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
    esac
    esac
  esac
  esac
solaris*)
  case $cc_basename in
    CC*)
    # Sun C++ 4.2, 5.x and Centerline C++
    _LT_AC_TAGVAR(archive_cmds_need_lc,$1)=yes
    _LT_AC_TAGVAR(no_undefined_flag,$1)="-zdefs"
    _LT_AC_TAGVAR(archive_cmds,$1)="$CC -G$[allow_undefined_flag] -h$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags"
    _LT_AC_TAGVAR(archive_expsym_cmds,$1)="$echo "[ { global:" > $lib.exp -cat $export_symbols | $SED -e "s/(.*)/\1/" >> $lib.exp -echo "local: *; }; " >> $lib.exp -$CC -G${allow_undefined_flag} -M $wl.$lib.exp -h$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -rm $lib.exp"
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec,$1)='-R$libdir'
    _LT_AC_TAGVAR(hardcode_shlibpath_var,$1)=no
  esac
  esac
  esac
  esac
solaris2.[[0-5]] | solaris2.[[0-5]].*) ;;
*)
  # The compiler driver will combine and reorder linker options,
  # but understands '-z linker_flag'.
  # Supported since Solaris 2.6 (maybe 2.5.1?)
  _LT_AC_TAGVAR(whole_archive_flag_spec,$1)='-z allextract$convenience -z defaultextract'
  ;;
  esac
  _LT_AC_TAGVAR(link_all_deplibs,$1)=yes
output_verbose_link_cmd='echo'

# Archives containing C++ object files must be created using
# "CC -xar", where "CC" is the Sun C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)='
$CC -xar -o $oldlib $oldobjs'
;;
gcx*)

# Green Hills C++ Compiler
_LT_AC_TAGVAR(archive_cmds, $1)='
$CC -shared $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags $[\{-\1\}]\ h $\$1\$soname -o $lib'

# The C++ compiler must be used to create the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)='
$CC SLDFLAGS -archive -o $oldlib $oldobjs'
;;
*)

# GNU C++ compiler with Solaris linker
if test "$GXX" = yes && test "$with_gnu.ld" = no; then
    _LT_AC_TAGVAR(archive_cmds, $1)='
$CC -shared -nostdlib $SLDFLAGS $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags $[\{-\1\}]\ h $\$1\$soname -o $lib'

    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='
$echo \"\{ global: \} > $lib.exp\~cat $export_symbols | $SED -e
"s/\(.*\)/\1;/" >> $lib.exp\~$echo \"local: *; \};\} >> $lib.exp~
$$CC -shared -nostdlib $[\{-\1\}]\ M $\$1\$lib\exp -o $lib $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags\~$rm $lib.exp\~'

    # Commands to make compiler produce verbose output that lists
    # what "hidden" libraries, object files and flags are used when
    # linking a shared library.

    output_verbose_link_cmd="/\$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep \"-L\""
else
    # g++ 2.7 appears to require `-G' NOT `-shared' on this
    # platform.

    _LT_AC_TAGVAR(archive_cmds, $1)='
$CC -G -nostdlib $SLDFLAGS $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags $[\{-\1\}]\ h $\$1\$soname -o $lib'

    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='
$echo \"\{ global: \} > $lib.exp\~cat $export_symbols | $SED -e
"s/\(.*\)/\1;/" >> $lib.exp\~$echo \"local: *; \};\} >> $lib.exp~
$$CC -G -nostdlib $[\{-\1\}]\ M $\$1\$lib\exp -o $lib $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags\~$rm $lib.exp\~'

    # Commands to make compiler produce verbose output that lists
    # what "hidden" libraries, object files and flags are used when
    # linking a shared library.

    output_verbose_link_cmd="/\$CC -G $CFLAGS -v conftest.$objext 2>&1 | grep \"-L\""
fi
case $host_os in
  Solaris2.* | Solaris2.* *) ;;
  *)
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}-R $wl$libdir'
    ;;
esac
fi

; ; esac
; ; sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.* | unixware7* | sco3.2v5.0.* *)
_LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,$wltext'
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
runpath_var='LD_RUN_PATH'

  case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    ;;
  *)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    ;;
esac
  ; ; sysv5* | sco3.2v5* | sco5v6*)
    # Note: We can NOT use -z defs as we might desire, because we do not
    # link with -lc, and that would cause any symbols used from libc to
    # always be unresolved, which means just about no library would
    # ever link correctly.  If we're not using GNU ld we use -z text
    # though, which does catch some bad symbols but isn't as heavy-handed
    # as -z defs.
    # For security reasons, it is highly recommended that you always
    # use absolute paths for naming shared libraries, and exclude the
    # DT_RUNPATH tag from executables and libraries.  But doing so
    # requires that you compile everything twice, which is a pain.
    # So that behaviour is only enabled if SCOABSPATH is set to a
    # non-empty value in the environment.  Most likely only useful for
    # creating official distributions of packages.
    # This is a hack until libtool officially supports absolute path
    # names for shared libraries.
    _LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,$wltext'
_LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-z,nodefs'
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="test -z "SCOABSPATH" && echo ${wl}-R,$libdir"
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-Bexport'
runpath_var='LD_RUN_PATH'

case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(archive_cmds, $1)='${CC} -G ${wl}-h,${SCOABSPATH:+$install_libdir/}$soname -o $lib $libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='${CC} -G ${wl}-Bexport:$export_symbols ${wl}-h,${SCOABSPATH:+$install_libdir/}$soname -o $lib $libobjs $deplibs $compiler_flags'
    ;;
  *)
    _LT_AC_TAGVAR(archive_cmds, $1)='${CC} -shared ${wl}-h,${SCOABSPATH:+$install_libdir/}$soname -o $lib $libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='${CC} -shared ${wl}-Bexport:$export_symbols ${wl}-h,${SCOABSPATH:+$install_libdir/}$soname -o $lib $libobjs $deplibs $compiler_flags'
    ;;
    esac
  ;;
  tandem*)
    case $cc_basename in
      NCC*)
        # NonStop-UX NCC 3.20
        # FIXME: insert proper C++ library support
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
        ;;
      *)
        # FIXME: insert proper C++ library support
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
        ;;
        esac
    ;;
    vxworks*)
        # FIXME: insert proper C++ library support
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
        ;;
    *)
        # FIXME: insert proper C++ library support
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
        ;;
        esac
    AC_MSG_RESULT([$LT_AC_TAGVAR(ld_shlibs, $1)])
    test "$LT_AC_TAGVAR(ld_shlibs, $1)" = no && can_build_shared=no

AC_LIBTOOL_CONFIG($1)

AC_LIBTOOL_POSTDEP_PREDEP($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

CC=$lt_save_CC
LDCXX=$LD
LD=$lt_save_LD
GCC=$lt_save_GCC
with_gnu_ldcxx=$with_gnu_ld
with_gnu_ld=$lt_save_with_gnu_ld
lt_cv_path_LDCXX=$lt_cv_path_LD
lt_cv_path_LD=$lt_save_path_LD
lt_cv_prog_gnu_ldcxx=$lt_cv_prog_gnu_ld
lt_cv_prog_gnu_ld=$lt_save_with_gnu_ld
}

# AC_LIBTOOL_POSTDEP_PREDEP([TAGNAME])
# ------------------------------------
# Figure out "hidden" library dependencies from verbose
# compiler output when linking a shared library.
# Parse the compiler output and extract the necessary
# objects, libraries and library flags.
AC_DEFUN([AC_LIBTOOL_POSTDEP_PREDEP], [AC_REQUIRE([LT_AC_PROG_SED])dnl
dnl we can't use the lt_simple_compile_test_code here,
dnl because it contains code intended for an executable,
dnl not a library. It's possible we should let each
dnl tag define a new lt_????_link_test_code variable,
dnl but it's only used here...
ifelse([$1],[],[cat > conftest.$ac_ext <<EOF
int a;
void foo (void) { a = 0; }
EOF
],[CXX],[]cat > conftest.$ac_ext <<EOF
class Foo
{
public:
Foo (void) { a = 0; }
private:
 int a;
};
EOF
subroutine foo
 implicit none
 integer*4 a
 a=0
 return
end
EOF
public class foo {
 private int a;
 public void bar (void) {
 a = 0;
 }
};
EOF

dnl Parse the compiler output and extract the necessary
doctools, libraries and library flags.
if AC_TRY_EVAL(ac_compile); then
 # Parse the compiler output and extract the necessary
 # objects, libraries and library flags.

 # Sentinel used to keep track of whether or not we are before
 # the conftest object file.
 pre_test_object_deps_done=no

 # The "*" in the case matches for architectures that use 'case' in
 # $output_verbose_cmd can trigger glob expansion during the loop
 # eval without this substitution.
 output_verbose_link_cmd="$echo "X$output_verbose_link_cmd" | $Xsed -e "$no_glob_subst"

 for p in 'eval $output_verbose_link_cmd'; do
 case $p in
 -L* | -R* | -l*)
  # Some compilers place space between "-{L,R}" and the path.
  # Remove the space.
  if test $p = "-L" \
  || test $p = "-R"; then
  prev=$p
  continue
  else

---
prev=
   fi
   
   if test "$pre_test_object_deps_done" = no; then
   case $p in
   -L* | -R*)
   # Internal compiler library paths should come after those
   # provided the user. The postdeps already come after the
   # user supplied libs so there is no need to process them.
   if test -z "$_LT_AC_TAGVAR(compiler_lib_search_path, $1)"; then
     _LT_AC_TAGVAR(compiler_lib_search_path, $1)="$prev$p"
   else
     _LT_AC_TAGVAR(compiler_lib_search_path, $1)="$[ _LT_AC_TAGVAR(compiler_lib_search_path, $1) ] $prev$p"
   fi
   ;;
   # The "-l" case would never come before the object being
   # linked, so don't bother handling this case.
   esac
   else
   if test -z "$_LT_AC_TAGVAR(postdeps, $1)"; then
     _LT_AC_TAGVAR(postdeps, $1)="${prev}$p"
   else
     _LT_AC_TAGVAR(postdeps, $1)="$_LT_AC_TAGVAR(postdeps, $1) ${prev}$p"
   fi
   fi
   ;;
   *.$objext)
   # This assumes that the test object file only shows up
   # once in the compiler output.
   if test "$p" = "conftest.$objext"; then
   pre_test_object_deps_done=yes
   continue
   fi
   
   if test "$pre_test_object_deps_done" = no; then
   if test -z "$_LT_AC_TAGVAR(predep_objects, $1)"; then
     _LT_AC_TAGVAR(predep_objects, $1)="$p"
   else
     _LT_AC_TAGVAR(predep_objects, $1)="$[ _LT_AC_TAGVAR(predep_objects, $1) ] $p"
   fi
   else
   if test -z "$_LT_AC_TAGVAR(postdep_objects, $1)"; then
     _LT_AC_TAGVAR(postdep_objects, $1)="$p"
   else
     _LT_AC_TAGVAR(postdep_objects, $1)="$[ _LT_AC_TAGVAR(postdep_objects, $1) ] $p"
   fi
   fi
* ) ;; # Ignore the rest.

esac
done

# Clean up.
rm -f a.out a.exe
else
  echo "libtool.m4: error: problem compiling $1 test program"
fi

$rm -f confest.$objext

_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)=
if test -n "$_LT_AC_TAGVAR(compiler_lib_search_path, $1)"; then
  _LT_AC_TAGVAR(compiler_lib_search_dirs, $1)="echo "$(_LT_AC_TAGVAR(compiler_lib_search_path,
  $1))" | $(SED) -e 's! -L! !g' -e 's!^ !!''
fi

# PORTME: override above test on systems where it is broken
ifelse{[$S1],[CXX],
  [case $host_os in
    interix[[3-9]]]*)
    # Interix 3.5 installs completely hosed .la files for C++, so rather than
    # hack all around it, let's just trust "g++" to DTRT.
    _LT_AC_TAGVAR(predep_objects,$1)=
    _LT_AC_TAGVAR(postdep_objects,$1)=
    _LT_AC_TAGVAR(postdeps,$1)=
    ;;
  linux*)
    case '"$CC -V 2>&1 | sed 5q' in
      *Sun\ C*)
        # Sun C++ 5.9
        #
        # The more standards-conforming stlport4 library is
        # incompatible with the Cstd library. Avoid specifying
        # it if it's in CXFLAGS. Ignore libCrun as
        # -library=stlport4 depends on it.
        case '" $CXX $CXFLAGS '" in
          *" -library=stlport4 "*)
            solaris_use_stlport4=yes
            ;;
    esac
    if test "$solaris_use_stlport4" != yes; then

solaris*)
    case $cc_basename in
    CC*)
        # The more standards-conforming stlport4 library is
        # incompatible with the Cstd library. Avoid specifying
        # it if it's in CXXFLAGS. Ignore libCrun as
        # -library=stlport4 depends on it.
        case "$CXX $CXXFLAGS " in
            "* -library=stlport4 "*)
                solaris_use_stlport4=yes
                ;;
        esac
        # Adding this requires a known-good setup of shared libraries for
        # Sun compiler versions before 5.6, else PIC objects from an old
        # archive will be linked into the output, leading to subtle bugs.
        if test "$solaris_use_stlport4" != yes; then
            _LT_AC_TAGVAR(postdeps, $1)='-library=Cstd -library=Crun'
        fi
        ;;
        esac
    esac
    esac
)}
    case "$_LT_AC_TAGVAR(postdeps, $1) " in
    "* -lc "*) _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no ;;
    esac
)}# AC_LIBTOOL_POSTDEP_PREDEP

# AC_LIBTOOL_LANG_F77_CONFIG
# --------------------------
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# _AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_F77_CONFIG], [_LT_AC_LANG_F77_CONFIG(F77)])
AC_DEFUN([_LT_AC_LANG_F77_CONFIG],
[AC_REQUIRE([AC_PROG_F77])
AC_LANG_PUSH(Fortran 77)

_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
# Source file extension for f77 test sources.
ac_ext=f

# Object file extension for compiled f77 test sources.
objext=o

# Code to be used in simple compile tests
lt_simple_compile_test_code="
  subroutine t
  return
  end
"

# Code to be used in simple link tests
lt_simple_link_test_code="
  program t
  end
"

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${F77-"f77"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
AC_MSG_CHECKING([if libtool supports shared libraries])
AC_MSG_RESULT([Can build shared])

AC_MSG_CHECKING([whether to build shared libraries])
test "Can build shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.
case $host_os in
  aix3*)
    test "$enable_shared" = yes && enable_static=no
    if test -n "$SRANLIB"; then
      archive_cmds="$archive_cmds-$SRANLIB $lib"
      postinstall_cmds="$SRANLIB $lib"
    fi
  ;;
  aix[4-9]*)
    if test "$host_cpu" != ia64 && test "$aix_use_runtimelinking" = no ; then
      test "$enable_shared" = yes && enable_static=no
    fi
  ;;
esac
AC_MSG_RESULT([Enable shared])

AC_MSG_CHECKING([whether to build static libraries])
# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes
AC_MSG_RESULT([Enable static])

_LT_AC_TAGVAR(GCC, $1)="$G77"
_LT_AC_TAGVAR(LD, $1)="$LD"

AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC="$lt_save_CC"
)

) # AC_LIBTOOL_LANG_F77_CONFIG
# AC_LIBTOOL_LANG_GCJ_CONFIG
# --------------------------
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_GCJ_CONFIG], [LT_AC_LANG_GCJ_CONFIG(GCJ)])
AC_DEFUN([LT_AC_LANG_GCJ_CONFIG],
[AC_LANG_SAVE
# Source file extension for Java test sources.
ac_ext=java

# Object file extension for compiled Java test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="class foo { }"

# Code to be used in simple link tests
lt_simple_link_test_code='public class conftest { public static void main(String[[[]] argv) { }; }'

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${GCJ-"gcj"} compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])

# GCJ did not exist at the time GCC didn't implicitly link libc in.
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no

_LT_AC_TAGVAR(archive_cmds, $1)=Sold_archive_cmds

AC_LIBTOOL_PROG_COMPILER_NO_RTTI($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)
AC_LIBTOOL_CONFIG(S1)

AC_LANG_RESTORE
CC="$lt_save_CC"
})# AC_LIBTOOL_LANG_GCY_CONFIG

# AC_LIBTOOL_LANG_RC_CONFIG
# -------------------------
# Ensure that the configuration vars for the Windows resource compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_RC_CONFIG], [__LT_AC_LANG_RC_CONFIG(RC)])
AC_DEFUN([__LT_AC_LANG_RC_CONFIG],
[AC_LANG_SAVE

# Source file extension for RC test sources.
ac_ext=rc

# Object file extension for compiled RC test sources.
objext=o
__LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code='sample MENU { MENUITEM "&Soup", 100, CHECKED }'

# Code to be used in simple link tests
lt_simple_link_test_code="$lt_simple_compile_test_code"

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
__LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
__LT_COMPILER_BOILERPLATE
__LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
ltt_save_CC="$CC"
CC=${RC-"windres"}
compiler=$CC
__LT_AC_TAGVAR(compiler, $1)=$CC
__LT_CC_BASENAME([$compiler])
__LT_AC_TAGVAR(lt.cv_prog_compiler_c.o, $1)=yes

AC_LIBTOOL_CONFIG(S1)

AC_LANG_RESTORE
CC="$lt_save_CC"
})# AC_LIBTOOL_LANG_RC_CONFIG

# AC_LIBTOOL_CONFIG([TAGNAME])
# ----------------------------
# If TAGNAME is not passed, then create an initial libtool script
# with a default configuration from the untagged config vars. Otherwise
# add code to config.status for appending the configuration named by
# TAGNAME from the matching tagged config vars.
AC_DEFUN([AC_LIBTOOL_CONFIG],
[# The else clause should only fire when bootstrapping the
# libtool distribution, otherwise you forgot to ship ltmain.sh
# with your package, and you will get complaints that there are
# no rules to generate ltmain.sh.
if test -f "$ltmain"; then
  # See if we are running on zsh, and set the options which allow our commands through
  # without removal of \ escapes.
  if test -n "$ZSH_VERSION+=set" ; then
    setopt NO_GLOB_SUBST
  fi
  # Now quote all the things that may contain metacharacters while being
  # careful not to overquote the AC_SUBSTTed values. We take copies of the
  # variables and quote the copies for generation of the libtool script.
  for var in echo old_CC old_CFLAGS AR AR_FLAGS EGREP RANLIB LN_S LTCC LTCFLAGS NM \
    SED SHELL STRIP \
      libname_spec library_names_spec soname_spec extract_expsyms_cmds \
    old_striplib striplib file_magic_cmd finish_cmds finish_eval \
    deplibs_check_method reload_flag reload_cmds need_locks \
    lt_cv_sys_global_symbol_pipe lt_cv_sys_global_symbol_to_cdecl \
    lt_cv_sys_global_symbol_to_c_name_address \
    sys_lib_search_path_spec sys_lib_dlsearch_path_spec \
    old_postinstall_cmds old_postuninstall_cmds \
    _LT_AC_TAGVAR(compiler, $1) \
    _LT_AC_TAGVAR(CC, $1) \
    _LT_AC_TAGVAR(LD, $1) \n    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1) \n    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1) \n    _LT_AC_TAGVAR(lt_prog_compiler_static, $1) \n    _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1) \n    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1) \n    _LT_AC_TAGVAR(thread_safe_flag_spec, $1) \n    _LT_AC_TAGVAR(whole_archive_flag_spec, $1) \n    _LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1) \n    _LT_AC_TAGVAR(old_archive_cmds, $1) \n    _LT_AC_TAGVAR(old_archive_from_new_cmds, $1) \n    _LT_AC_TAGVAR(predep_objects, $1) \n    _LT_AC_TAGVAR(postdep_objects, $1) \n
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case $var in
   old_archive_cmds | old_archive_from_new_cmds | archive_cmds | archive_expsym_cmds | module_cmds | module_expsym_cmds | old_archive_from_expsyms_cmds | export_symbols_cmds | hardcode_libdir_flag_spec | hardcode_libdir_flag_spec_ld | hardcode_libdir_separator | hardcode_automatic | sys_lib_search_path_spec | sys_lib_dlsearch_path_spec
   # Double-quote double-evaluated strings.
   eval "lt_$var=""""$echo "X$$var" | \$Xsed -e "$double_quote_subst" -e "$sed_quote_subst" -e "$delay_variable_subst"""""
      ::
      *)
      eval "lt_$var=""""$echo "X$$var" | \$Xsed -e "$sed_quote_subst"\"
      ::
      esac
  done

```
lt_echo='echo "X$lt_echo" | $Xsed -e s///\$(\$0 --fallback-echo\$)\$(\$0 --fallback-echo)/''

esac

ifelse([$1], [],
[cfgfile="$ofile"]
trap "$rm "$cfgfile"; exit 1" 1 2 15
$rm -f "$cfgfile"
AC_MSG_NOTICE([creating $ofile]),
[cfgfile="$ofile"])

cat <<__EOF__ >> "$cfgfile"
ifelse([$1], [],
[#! $SHELL
# '$echo "$cfgfile" | sed 's%^.*/%%'' - Provide generalized library-building support services.
# Generated automatically by $PROGRAM (GNU $PACKAGE $VERSION$TIMESTAMP)
# NOTE: Changes made to this file will be lost: look at ltmain.sh.
#
# Free Software Foundation, Inc.
#
# This file is part of GNU Libtool:
# Originally by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
#
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# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.
#
# A sed program that does not truncate output.
SED=$lt_SED

# Sed that helps us avoid accidentally triggering echo(1) options like -n.

__EOF__

Xsed="$SED -e 1s/^X//"

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CPATH

# The names of the tagged configurations supported by this script.
available_tags=

# ### BEGIN LIBTOOL CONFIG].
[# ### BEGIN LIBTOOL TAG CONFIG: $tagname])

# Libtool was configured on host `(hostname || uname -n) 2>/dev/null | sed 1q`:

# Shell to use when invoking shell scripts.
SHELL=$lt_SHELL

# Whether or not to build shared libraries.
build_libtool_libs=$enable_shared

# Whether or not to build static libraries.
build_old_libs=$enable_static

# Whether or not to add -lc for building shared libraries.
build_libtool_need_lc=$_LT_AC_TAGVAR(archive_cmds_need_lc, $1)

# Whether or not to disallow shared libs when runtime libs are static
allow_libtool_libs_with_static_runtimes=$_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)

# Whether or not to optimize for fast installation.
fast_install=$enable_fast_install

# The host system.
host_alias=$host_alias
host=$host
host_os=$host_os

# The build system.
build_alias=$build_alias
build=$build
build_os=$build_os

# An echo program that does not interpret backslashes.
echo=$lt_echo

# The archiver.
AR=$lt_AR
AR_FLAGS=$lt_AR_FLAGS
# A C compiler.
LTCC=$lt_LTCC

# LTCC compiler flags.
LTCFLAGS=$lt_LTCDFLGS

# A language-specific compiler.
CC=$lt_L[1]_LT_AC_TAGVAR(compiler, $1)

# Is the compiler the GNU C compiler?
with_gcc=$lt_L[1]_LT_AC_TAGVAR(GCC, $1)

# An ERE matcher.
EGREP=$lt_EGREP

# The linker used to build libraries.
LD=$lt_L[1]_LT_AC_TAGVAR(LD, $1)

# Whether we need hard or soft links.
LN_S=$lt_LN_S

# A BSD-compatible nm program.
NM=$lt_NM

# A symbol stripping program
STRIP=$lt_STRIP

# Used to examine libraries when file_magic_cmd begins "file"
MAGIC_CMD=$MAGIC_CMD

# Used on cygwin: DLL creation program.
DLLTOOL="$DLLTOOL"

# Used on cygwin: object dumper.
OBJDUMP="$OBJDUMP"

# Used on cygwin: assembler.
AS="$AS"

# The name of the directory that contains temporary libtool files.
objdir=$objdir

# How to create reloadable object files.
reload_flag=$lt_reload_flag
reload_cmds=$lt_reload_cmds

# How to pass a linker flag through the compiler.
wl=\$lt\_|\_LT_AC\_TAGVAR(lt\_prog\_compiler\_wl, $1)

# Object file suffix (normally "o").
ojbext="\$ac\_objext"

# Old archive suffix (normally "a").
libext="\$libext"

# Shared library suffix (normally ".so").
shrext\_cmds='\$shrext\_cmds'

# Executable file suffix (normally ".")
exeext='\$exeext'

# Additional compiler flags for building library objects.
pic\_flag=\$lt\_|\_LT_AC\_TAGVAR(lt\_prog\_compiler\_pic, $1)
pic\_mode=\$pic\_mode

# What is the maximum length of a command?
max\_cmd\_len=\$lt\_cv\_sys\_max\_cmd\_len

# Does compiler simultaneously support -c and -o options?
compiler\_c\_o=\$lt\_|\_LT_AC\_TAGVAR(lt\_cv\_prog\_compiler\_c\_o, $1)

# Must we lock files when doing compilation?
need\_locks=\$lt\_need\_locks

# Do we need the lib prefix for modules?
need\_lib\_prefix=\$need\_lib\_prefix

# Do we need a version for libraries?
need\_version=\$need\_version

# Whether dlopen is supported.
dlopen\_support=\$enable\_dlopen

# Whether dlopen of programs is supported.
dlopen\_self=\$enable\_dlopen\_self

# Whether dlopen of statically linked programs is supported.
dlopen\_self\_static=\$enable\_dlopen\_self\_static

# Compiler flag to prevent dynamic linking.
link\_static\_flag=\$lt\_|\_LT_AC\_TAGVAR(lt\_prog\_compiler\_static, $1)

# Compiler flag to turn off builtin functions.
no\_builtin\_flag=\$lt\_|\_LT_AC\_TAGVAR(lt\_prog\_compiler\_no\_builtin\_flag, $1)
# Compiler flag to allow reflexive dlopens.
export_dynamic_flag_spec=$lt_[]_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)
# Compiler flag to generate shared objects directly from archives.
whole_archive_flag_spec=$lt_[]_LT_AC_TAGVAR(whole_archive_flag_spec, $1)
# Compiler flag to generate thread-safe objects.
thread_safe_flag_spec=$lt_[]_LT_AC_TAGVAR(thread_safe_flag_spec, $1)
# Library versioning type.
version_type=$version_type
# Format of library name prefix.
libname_spec=$lt_libname_spec
# List of archive names. First name is the real one, the rest are links.
# The last name is the one that the linker finds with -lNAME.
library_names_spec=$lt_library_names_spec
# The coded name of the library, if different from the real name.
soname_spec=$lt_soname_spec
# Commands used to build and install an old-style archive.
RANLIB=$lt_RANLIB
old_archive_cmds=$lt_[]_LT_AC_TAGVAR(old_archive_cmds, $1)
old_postinstall_cmds=$lt_old_postinstall_cmds
old_postuninstall_cmds=$lt_old_postuninstall_cmds
# Create an old-style archive from a shared archive.
old_archive_from_new_cmds=$lt_[]_LT_AC_TAGVAR(old_archive_from_new_cmds, $1)
# Create a temporary old-style archive to link instead of a shared archive.
old_archive_from_expsyms_cmds=$lt_[]_LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1)
# Commands used to build and install a shared archive.
archive_cmds=$lt_[]_LT_AC_TAGVAR(archive_cmds, $1)
archive_expsym_cmds=$lt_[]_LT_AC_TAGVAR(archive_expsym_cmds, $1)
postinstall_cmds=$lt_postinstall_cmds
postuninstall_cmds=$lt_postuninstall_cmds
# Commands used to build a loadable module (assumed same as above if empty)
module_cmds=$lt_[]_LT_AC_TAGVAR(module_cmds, $1)
module_expsym_cmds=$lt_[]_LT_AC_TAGVAR(module_expsym_cmds, $1)
# Commands to strip libraries.
old_striplib=$lt_old_striplib
striplib=$lt_striplib

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# Dependencies to place before the objects being linked to create a
# shared library.
predep_objects=$lt_[]_LT_AC_TAGVAR(predep_objects, $1)

# Dependencies to place after the objects being linked to create a
# shared library.
postdep_objects=$lt_[]_LT_AC_TAGVAR(postdep_objects, $1)

# Dependencies to place before the objects being linked to create a
# shared library.
predeps=$lt_[]_LT_AC_TAGVAR(predeps, $1)

# Dependencies to place after the objects being linked to create a
# shared library.
postdeps=$lt_[]_LT_AC_TAGVAR(postdeps, $1)

# The directories searched by this compiler when creating a shared
# library
compiler_lib_search_dirs=$lt_[]_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)

# The library search path used internally by the compiler when linking
# a shared library.
compiler_lib_search_path=$lt_[]_LT_AC_TAGVAR(compiler_lib_search_path, $1)

# Method to check whether dependent libraries are shared objects.
deplibs_check_method=$lt_deplibs_check_method

# Command to use when deplibs_check_method == file_magic.
file_magic_cmd=$lt_file_magic_cmd

# Flag that allows shared libraries with undefined symbols to be built.
allow_undefined_flag=$lt_[]_LT_AC_TAGVAR(allow_undefined_flag, $1)

# Flag that forces no undefined symbols.
nno_undefined_flag=$lt_[]_LT_AC_TAGVAR(no_undefined_flag, $1)

# Commands used to finish a libtool library installation in a directory.
finish_cmds=$lt_finish_cmds

# Same as above, but a single script fragment to be evalued but not shown.
finish_eval=$lt_finish_eval

# Take the output of nm and produce a listing of raw symbols and C names.
global_symbol_pipe=$lt_lt_cv_sys_global_symbol_pipe

# Transform the output of nm in a proper C declaration
global_symbol_to_cdecl=$lt_lt_cv_sys_global_symbol_to_cdecl
# Transform the output of nm in a C name address pair
global_symbol_to_c_name_address=$lt_lt_cv__sys_global_symbol_to_c_name_address

# This is the shared library runtime path variable.
runpath_var=$runpath_var

# This is the shared library path variable.
shlibpath_var=$shlibpath_var

# Is shlibpath searched before the hard-coded library search path?
shlibpath_overrides_runpath=$shlibpath_overrides_runpath

# How to hardcode a shared library path into an executable.
hardcode_action=$_LT_AC_TAGVAR(hardcode_action, $1)

# Whether we should hardcode library paths into libraries.
hardcode_into_libs=$hardcode_into_libs

# Flag to hardcode $libdir into a binary during linking.
# This must work even if $libdir does not exist.
hardcode_libdir_flag_spec=$lt_[]_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)

# If ld is used when linking, flag to hardcode $libdir into
# a binary during linking. This must work even if $libdir does
# not exist.
hardcode_libdir_flag_spec_ld=$lt_[]_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)

# Whether we need a single -rpath flag with a separated argument.
hardcode_libdir_separator=$lt_[]_LT_AC_TAGVAR(hardcode_libdir_separator, $1)

# Set to yes if using DIR/libNAME{shared_ext} during linking hardcodes DIR into the
# resulting binary.
hardcode_direct=$_LT_AC_TAGVAR(hardcode_direct, $1)

# Set to yes if using the -LDIR flag during linking hardcodes DIR into the
# resulting binary.
hardcode_minus_L=$_LT_AC_TAGVAR(hardcode_minus_L, $1)

# Set to yes if using SHLIBPATH_VAR=DIR during linking hardcodes DIR into
# the resulting binary.
hardcode_shlibpath_var=$LT_AC_TAGVAR(hardcode_shlibpath_var, $1)

# Set to yes if building a shared library automatically hardcodes DIR into the library
# and all subsequent libraries and executables linked against it.
hardcode_automatic=$_LT_AC_TAGVAR(hardcode_automatic, $1)

# Variables whose values should be saved in libtool wrapper scripts and
# restored at relink time.
variables_saved_for_relink="$variables_saved_for_relink"

# Whether libtool must link a program against all its dependency libraries.
link_all_deplibs=$_LT_AC_TAGVAR(link_all_deplibs, $1)

# Compile-time system search path for libraries
sys_lib_search_path_spec=$lt_sys_lib_search_path_spec

# Run-time system search path for libraries
sys_lib_dlsearch_path_spec=$lt_sys_lib_dlsearch_path_spec

# Fix the shell variable \\srcfile for the compiler.
fix_srcfile_path=$lt_fix_srcfile_path

# Set to yes if exported symbols are required.
always_export_symbols=$_LT_AC_TAGVAR(always_export_symbols, $1)

# The commands to list exported symbols.
export_symbols_cmds=$lt__LT_AC_TAGVAR(export_symbols_cmds, $1)

# The commands to extract the exported symbol list from a shared archive.
extract_expsyms_cmds=$lt_extract_expsyms_cmds

# Symbols that should not be listed in the preloaded symbols.
exclude_expsyms=$lt__LT_AC_TAGVAR(exclude_expsyms, $1)

# Symbols that must always be exported.\ninclude_expsyms=$lt__LT_AC_TAGVAR(include_expsyms, $1)

ifelse([$1],[], [
# ### END LIBTOOL CONFIG],
[# ### END LIBTOOL TAG CONFIG: $tagname])

__EOF__

ifelse([$1],[], [case $host_os in
  aix3*)
    cat <<\EOF >> "$cfgfile"
      # AIX sometimes has problems with the GCC collect2 program. For some
      # reason, if we set the COLLECT\_NAMES environment variable, the problems
      # vanish in a puff of smoke.
      if test "X${COLLECT\_NAMES+set}" != Xset; then
        COLLECT\_NAMES=
        export COLLECT\_NAMES
      fi
    EOF
  fi
]
# We use sed instead of cat because bash on DJGPP gets confused if
# if finds mixed CR/LF and LF-only lines. Since sed operates in
# text mode, it properly converts lines to CR/LF. This bash problem
# is reportedly fixed, but why not run on old versions too?

esed 'S$q "$ltmain" $"cfgfile" $' (rm -f "$cfgfile"; exit 1)

mv -f "$cfgfile" "$ofile" || \
  (rm -f "$ofile" && cp "$cfgfile" "$ofile" && rm -f "$cfgfile")

chmod +x "$ofile"

else

# If there is no Makefile yet, we rely on a make rule to execute
# 'config.status --recheck' to rerun these tests and create the
# libtool script then.

ltmain_in='echo $ltmain | sed -e 's/\.sh$/.in/''

if test -f "$ltmain_in"; then
  test -f Makefile && make $ltmain
fi
fi

)# AC_LIBTOOL_CONFIG

# AC_LIBTOOL_PROG_COMPILER_NO_RTTI([TAGNAME])
# --------------------------------------------

AC_DEFUN([AC_LIBTOOL_PROG_COMPILER_NO_RTTI], [AC_REQUIRE([AC_CANONICAL_HOST]

_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=

if test "$GCC" = yes; then
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=' -fno-builtin'

AC_LIBTOOL_COMPILER_OPTION([if $compiler supports -fno-rtti -fno-exceptions],
  lt_cv_prog_compiler_rtti_exceptions,
  [-fno-rtti -fno-exceptions], []),
  [LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)="$LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1) -fno-rtti -fno-exceptions"])
fi

)# AC_LIBTOOL_PROG_COMPILER_NO_RTTI

# AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE
# ----------------------------------

AC_DEFUN([AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE], [AC_REQUIRE([AC_CANONICAL_HOST]

---
AC_REQUIRE([LT_AC_PROG_SED])
AC_REQUIRE([AC_PROG_NM])
AC_REQUIRE([AC_OBJEXT])

# Check for command to grab the raw symbol name followed by C symbol from nm.
AC_MSG_CHECKING([command to parse $NM output from $compiler object])

AC_CACHE_VAL([lt_cv_sys_global_symbol_pipe],

# These are sane defaults that work on at least a few old systems.
# [They come from Ultrix. What could be older than Ultrix?! ;)]

# Character class describing NM global symbol codes.
symcode='[BCDEGRST]'

# Regexp to match symbols that can be accessed directly from C.
sympat='\([_-A-Za-z][-_A-Za-z0-9]*\)'

# Transform an extracted symbol line into a proper C declaration
lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^. .* \([^\ ]\)*$/extern int \1;/p'"

# Transform an extracted symbol line into symbol name and symbol address
lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: \([^\ ]\)* $/  {\"\1\", (lt_ptr) 0},/p' -e 's/^[A-Za-z0-9]*$symcode \([^\ ]\)* \([^\ ]\)*$/  {\"\2", (lt_ptr) \&\2},/p'"

# Define system-specific variables.
case $host_os in
  aix*) symcode='[BCDT]'
  ;;
cygwin* | mingw* | pw32*) symcode='[ABCDGISTW]'
  ;;
hpux*) # Its linker distinguishes data from code symbols
    if test "$host_cpu" = ia64; then
      symcode='[ABCDGIRST]'
    fi
  lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^. .* \([^\ ]\)*$/extern int \1;/p' -e 's/^[A-Za-z0-9]*$symcode \([^\ ]\)*$/extern char \1;/p'";
  lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: \([^\ ]\)* $/  {\"\1\", (lt_ptr) 0},/p' -e 's/^[A-Za-z0-9]*\([^\ ]\)*$symcode \([^\ ]\)*$/  {\"\2", (lt_ptr) \&\2},/p'"
  ;;
  linux* | k*bsd* | gnu)
    if test "$host_cpu" = ia64; then
      symcode='[ABCDGIRSTW]'
    fi
  lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^. .* \([^\ ]\)*$/extern int \1;/p' -e 's/^[A-Za-z0-9]*$symcode \([^\ ]\)*$/extern char \1;/p'"
  lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: \([^\ ]\)* $/  {\"\1\", (lt_ptr) 0},/p' -e 's/^[A-Za-z0-9]*\([^\ ]\)*$symcode \([^\ ]\)*$/  {\"\2", (lt_ptr) \&\2},/p'"
  fi
::
irix* | nonstopux*)
symcode='[[BCDEGRST]]'
::
osf*)
symcode='[[BCDEGQRST]]'
::
solaris*)
symcode='[[BDRT]]'
::
sco3.2v5*)
symcode='[[DT]]'
::
sysv4,2uw2*)
symcode='[[DT]]'
::
sysv5* | sco5v6* | unixware* | OpenUNIX*)
symcode='[[ABDT]]'
::
sysv4)
symcode='[[DFNSTU]]'
::
esac

# Handle CR LF in mingw tool chain
opt_cr=
case $build_os in
mingw*)
  opt_cr='echo 'x\{0,1\}' | tr x \015' # option cr in regexp
::
esac

# If we're using GNU nm, then use its standard symbol codes.
case 'SNM -V 2>&1' in
  *GNU* | *'with BFD'*)
symcode='[[ABCDGIRSTW]]'
::
esac

# Try without a prefix underscore, then with it.
for ac_symprfx in "" "_"; do

  # Transform symcode, sympat, and symprfx into a raw symbol and a C symbol.
symxfrm="\l $ac_symprfx\2 \2"

  # Write the raw and C identifiers.
l_t_cv_sys_global_symbol_pipe="sed -n -e 's/^[ ]*$symcode$symcode*$ac_symprfx\$opt_cr\$sympat$opt_cr$/\symcode\$sympat\$opt_cr$/\symxfrm/p'"

# Check to see that the pipe works correctly.
pipe_works=no

rm -f conftest*
cat > conftest.$ac_ext
#endif
extern "C" {
#endif
char nm_test_var;
void nm_test_func();
#endif
}
#endif
int main(){nm_test_var='a';nm_test_func();return(0);
EOF

if AC_TRY_EVAL(ac_compile); then
  # Now try to grab the symbols.
nlist=conftest.nm
  if AC_TRY_EVAL(NM conftest.$ac_objext | $lt_cv_sys_global_symbol_pipe > $nlist) && test -s "$nlist"; then
    # Try sorting and uniquifying the output.
    if sort "$nlist" | uniq > "$nlist"T; then
      mv -f "$nlist"T "$nlist"
    else
      rm -f "$nlist"T
    fi
  # Make sure that we snagged all the symbols we need.
  if grep ' nm_test_var$' "$nlist" > /dev/null; then
    if grep ' nm_test_func$' "$nlist" > /dev/null; then
      cat <<EOF > conftest.$ac_ext
        #ifdef __cplusplus
        extern "C" {
        #endif
        EOF
        # Now generate the symbol file.
eval "$lt_cv_sys_global_symbol_to_cdecl" < "$nlist" | grep -v main >> conftest.$ac_ext'
        cat <<EOF > conftest.$ac_ext
        #ifdef __cplusplus
        extern "C" {
        #endif
        EOF
        #if defined (__STDC__) && __STDC__
        # define lt_ptr_t void *
        #else
        # define lt_ptr_t char *
        # define const
        #endif

        /* The mapping between symbol names and symbols. */
const struct {
   const char *name;
   lt_ptr_t address;
} lt_preloaded_symbols[] = 
{
   EOF
}

const char *symcode = "\(.*\) \(.*\)\$\" \
 EOF

$SED "s/$symcode\$symcode* \(.*\) \(.*\)\$/ \(\"2\"\, (lt_ptr_t) \&1\)\$/" < "$nlist" | grep -v main >

conftest.$ac_ext

EOF

} lt_preloaded_symbols

EOF

# Now try linking the two files.

mv conftest.$ac_objext confstm.$ac_objext

lt_save_LIBS="$LIBS"

lt_save_CFLAGS="$CFLAGS"

LIBS="confstm.$ac_objext"

CFLAGS="$CFLAGS$_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)"

if AC_TRY_EVAL(ac_link) && test -s conftest${ac_exeext}; then
   pipe_works=yes
   fi
   LIBS="$lt_save_LIBS"
   CFLAGS="$lt_save_CFLAGS"
else
   echo "cannot find nm_test_func in $nlist" >&AS_MESSAGE_LOG_FD
   fi
else
   echo "cannot find nm_test_var in $nlist" >&AS_MESSAGE_LOG_FD
   fi
else
   echo "$progname: failed program was:" >&AS_MESSAGE_LOG_FD
   cat conftest.$ac_ext >&5
   fi
   rm -rf conftest* confstm*

# Do not use the global_symbol_pipe unless it works.

if test "$pipe_works" = yes; then
   break
else
   lt_cv_sys_global_symbol_pipe=


fi
done
}
if test -z "$lt_cv_sys_global_symbol_pipe"; then
lt_cv_sys_global_symbol_to_cdecl=
fi
if test -z "$lt_cv_sys_global_symbol_pipe$lt_cv_sys_global_symbol_to_cdecl"; then
AC_MSG_RESULT(failed)
else
AC_MSG_RESULT(ok)
fi
}) # AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE

# AC_LIBTOOL_PROG_COMPILER_PIC([TAGNAME])
# ---------------------------------------
AC_DEFUN([AC_LIBTOOL_PROG_COMPILER_PIC],
[_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=
 _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
 _LT_AC_TAGVAR(lt_prog_compiler_static, $1)=
AC_MSG_CHECKING([for $compiler option to produce PIC])
ifelse([$1],[CXX],[
 # C++ specific cases for pic, static, wl, etc.
 if test "$GXX" = yes; then
 _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
 _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-m68020 -resident32 -malways-restore-a4'
 _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'
 case $host_os in
 aix*)
 # AIX code is PIC.
 if test "$host_cpu" = ia64; then
 # AIX 5 now supports IA64 processor
 _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
 fi
 ;;
 amigaos*)
 # FIXME: we need at least 68020 code to build shared libraries, but
 # adding the '-m68020' flag to GCC prevents building anything better,
 # like '-m68040'.
 _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-m68020 -resident32 -malways-restore-a4'
 ;;
 beos* | irix5* | irix6* | nonstopux* | osf3* | osf4* | osf5*)
 # PIC is the default for these OSes.
 ;;
 mingw* | cygwin* | os2* | pw32*)
 # This hack is so that the source file can tell whether it is being
 # built for inclusion in a dll (and should export symbols for example).
# Although the cygwin gcc ignores -fPIC, still need this for old-style
# (--disable-auto-import) libraries
m4_if([S1], [GCJ], [],
   \[LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT'])
  ;;
  darwin* | rhapsody*)
    # PIC is the default on this platform
    # Common symbols not allowed in MH_DYLIB files
    \[LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fno-common'
      ;;
      *djgpp*)
        # DJGPP does not support shared libraries at all
        \[LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
          ;;
          interix[[3-9]]*)
            # Interix 3.x gcc -fpic/-fPIC options generate broken code.
            # Instead, we relocate shared libraries at runtime.
            ;;
            sysv4*MP*)
              if test -d /usr/nec; then
              \[LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-Kconform_pic
                fi
              ;;
              hpux*)
                # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
                # not for PA HP-UX.
                case $host_cpu in
                  hppa*64*|ia64*)
                    ;;
                    *)
                    \[LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
                      ;;
                      esac
                    ;;
                    *)
                    \[LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
                      ;;
                      esac
              else
                case $host_os in
                  aix[[4-9]]*)
                    # All AIX code is PIC.
                    if test "$host_cpu" = ia64; then
                      # AIX 5 now supports IA64 processor
                      \[LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
                    else
                      \[LT_AC_TAGVAR(lt_prog_compiler_static, $1)=
                        -bnso -bf:/lib/syscalls.exp'
                    fi
                  endif
                esac
              esac
            fi
          esac
        esac
      esac
    esac
  esac
fi
chorus*)
case $cc_basename in
cxch68*)
  # Green Hills C++ Compiler
  # _LT_AC_TAGVAR(lt_prog_compiler_static, $1)="--no_auto_instantiation -u __main -u __premain -u _abort -r
  $COOL_DIR/lib/libOrb.a $MVME_DIR/lib/CC/libC.a $MVME_DIR/lib/classix/libcx.s.a"
  ;;
esac
  ;;
darwin*)
  # PIC is the default on this platform
  # Common symbols not allowed in MH_DYLIB files
case $cc_basename in
    xlc*)
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-qnocommon'
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      ;;
esac
    ;;
dgux*)
case $cc_basename in
  ec++)
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
    ;;
ghx*)
  # Green Hills C++ Compiler
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
  ;; *
  ;;
esac
  ;;
frebsd* | dragonfly*)
  # FreeBSD uses GNU C++
  ;;
hpux9* | hpux10* | hpux11*)
case $cc_basename in
  CC*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
  if test "$host_cpu" != ia64; then
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
  fi
  ;;
aCC*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
case $host_cpu in
  hppa*64*|ia64*)
    # +Z the default
    ;;
    *)
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=+Z'
    ;;
esac
    ;;
  esac
  ;;
interix*)
  # This is c89, which is MS Visual C++ (no shared libs)
  # Anyone wants to do a port?
  ;;
  irix5* | irix6* | nonstopux*)
  case $cc_basename in
    CC*)
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
      # CC pic flag -KPIC is the default.
    ;;
    *)
    ;;
esac
    ;;
  esac
  ;;
  linux* | k*bsd*-gnu)
  case $cc_basename in
    KCC*)
      # KAI C++ Compiler
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-backend -Wl,'
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
    ;;
    icpc* | ecpc*)
      # Intel C++
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'
    ;;
    pgCC* | pgcpp*)
      # Portland Group C++ compiler.
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fpic'
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    ;;
    cxx*)
    ;;
# Compaq C++
# Make sure the PIC flag is empty. It appears that all Alpha
# Linux and Compaq Tru64 Unix objects are PIC.
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
;;
*)
case '$CC -V 2>&1 | sed 5q' in
  *Sun C* )
    # Sun C++ 5.9
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld '
    ;;
esac
esac

::
  ;
  lynxos*)
  ;
  m88k*)
  ;
  mvs*)
case $cc_basename in
cxx*)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-W c,exportall'
  ;;
  *)
  ;;
esac
  ;;
  netbsd*)
  ;;
  osf3* | osf4* | osf5*)
case $cc_basename in
  KCC*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-backend -Wl,'
  ;;
RCC*)
  # Rational C++ 2.4.1
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
  ;;
cxx*)
  # Digital/Compaq C++
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  # Make sure the PIC flag is empty. It appears that all Alpha
  # Linux and Compaq Tru64 Unix objects are PIC.
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=

_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'

;; *
;; esac

;; psos*)

;;
;
solaris*)

case $cc_basename in
   CC*)
      # Sun C++ 4.2, 5.x and Centerline C++
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld '
      ;;
      gcx*)
         # Green Hills C++ Compiler
         _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-PIC'
         ;; *
      ;; esac

;;

sunos4*)

case $cc_basename in
   CC*)
      # Sun C++ 4.x
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
      ;;
      lcc*)
         # Lucid
         _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
         ;; *
      ;; esac

;;

tandem*)

case $cc_basename in
   NCC*)
      # NonStop-UX NCC 3.20
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
      ;; *
      ;; esac

---

Open Source Used In Cisco Unified Communication Manager 12.0.1.SU5 10349
case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  ;;
  esac
  ;;
  vxworks*)
  ;;
  *)
    _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
  ;;
  esac
fi

if test "$GCC" = yes; then
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'
  case $host_os in
  aix*)
    # All AIX code is PIC.
    if test "$host_cpu" = ia64; then
      # AIX 5 now supports IA64 processor
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    fi
    ;;
  amigaos*)
    # FIXME: we need at least 68020 code to build shared libraries, but
    # adding the '-m68020' flag to GCC prevents building anything better,
    # like '-m68040'.
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-m68020 -resident32 -malways-restore-a4'
    ;;
  beos* | irix5* | irix6* | nonstopux* | osf3* | osf4* | osf5*)
    # PIC is the default for these OSes.
    ;;
  mingw* | cygwin* | pw32* | os2*)
    # This hack is so that the source file can tell whether it is being
    # built for inclusion in a dll (and should export symbols for example).
    # Although the cygwin gcc ignores -fPIC, still need this for old-style
    # (--disable-auto-import) libraries
m4_if([$1], [GCJ], []). 

[ _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT'])

;;

darwin* | rhapsody*)
  # PIC is the default on this platform
  # Common symbols not allowed in MH_DYLIB files
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fno-common'
  ;;

interix[[3-9]]*)
  # Interix 3.x gcc -fpic/-fPIC options generate broken code.
  # Instead, we relocate shared libraries at runtime.
  ;;

msdosdjgpp*)
  # Just because we use GCC doesn't mean we suddenly get shared libraries
  # on systems that don't support them.
  _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
  enable_shared=no
  ;;

sysv4*MP*)
  if test -d /usr/nec; then
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-Kconform_pic
  fi
  ;;

hpux*)
  # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
  # not for PA HP-UX.
  case $host_cpu in
    hppa*64*|ia64*)
      # +Z the default
      ;;
    *)
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
      ;;
    esac
    ;;
  esac
  else
    # PORTME Check for flag to pass linker flags through the system compiler.
    case $host_os in

aix*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  if test "$host_cpu" = ia64; then
# AIX 5 now supports IA64 processor
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  else
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-bnso -bf:/lib/syscalls.exp'
  fi
  ;;
darwin*)
  # PIC is the default on this platform
  # Common symbols not allowed in MH_DYLIB files
  case $cc.basename in
    xlc*)
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-qnocommon'
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      ;;
esac
  ;;
mingw* | cygwin* | pw32* | os2*)
  # This hack is so that the source file can tell whether it is being
  # built for inclusion in a dll (and should export symbols for example).
  m4_if([$1], [GCJ], [],
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT')
  ;;
hpux9* | hpux10* | hpux11*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
  # not for PA HP-UX.
  case $host_cpu in
    hppa*64*|ia64*)
      # +Z the default
      ;;
    *)
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
      ;;
esac
  # Is there a better lt_prog_compiler_static that works with the bundled CC?
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)="$wl-a $wl.archive'
  ;;
irix5* | irix6* | nonstopux*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  # PIC (with -KPIC) is the default.
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
  ;;
newsos6)
   _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-K PIC'
   _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
   ;;

   linux* | k*bsd*-gnu)
   case $cc_basename in
   icc* | eec*)
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-K PIC'
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'
      ;;
   pgcc* | pgf77* | pgf90* | pgf95*)
      # Portland Group compilers (*not* the Pentium gcc compiler,
      # which looks to be a dead project)
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fpic'
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
      ;;
   ccc*)
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      # All Alpha code is PIC.
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
      ;;
   *)
      case 'SCC -V 2>&1 | sed 5q' in
   *Sun\ C*)
      # Sun C 5.9
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-K PIC'
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      ;;
   *Sun\ F*)
      # Sun Fortran 8.3 passes all unrecognized flags to the linker
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-K PIC'
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=""
      ;;
sac
      esac
   esac
   ;;
osf3* | osf4* | osf5*)
   _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
   # All OSF/1 code is PIC.
   _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
rdos*)
   _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
;;

solaris*)
   _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
   _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
   case $cc_basename in
      f77* | f90* | f95*)
         _LT_AC_TAGVAR(lt_prog Compiler_wl, $1)='-Qoption ld ';;
   *)
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,';;
      esac
;;
sunos4*)
   _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld '
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-PIC'
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
   ;;

sysv4 | sysv4.2uw2 * sysv4.3*)
   _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
   _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
   _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
   ;;

sysv4*MP*)
   if test -d /usr/nec ;then
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-Kconform_pic'
      _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
   fi
;;

sysv5* | unixware* | sco3.2v5* sco5v6* OpenUNIX*)
   _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
   _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
   _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
   ;;

unicos*)
   _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
   _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
   ;;

uts4*)
AC_MSG_RESULT([$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)])

# # Check to make sure the PIC flag actually works.
# if test -n "$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)"; then
AC_LIBTOOL_COMPILER_OPTION([if $compiler PIC flag $LT_AC_TAGVAR(lt_prog_compiler_pic, $1) works],
  $LT_AC_TAGVAR(lt_cv_prog_compiler_pic_works, $1),
  $LT_AC_TAGVAR(lt_prog_compiler_pic, $1)$ifelse([$1],[],[-DPIC],[$1],[-DPIC],[])$], [$],
  [case $LT_AC_TAGVAR(lt_prog_compiler_pic, $1) in
    "" | " ") ;;
  *) $LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=" $LT_AC_TAGVAR(lt_prog_compiler_pic, $1)" ;;
  esac,
  $LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
) fi
case $host_os in
  # For platforms which do not support PIC, -DPIC is meaningless:
  *djgpp*)
    $LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
    ;;
  *)
    $LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)$ifelse([$1],[],[-DPIC],[$1],[-DPIC],[])$"
    ;;
  esac

# # Check to make sure the static flag actually works.
# $wl=$LT_AC_TAGVAR(lt_prog_compiler_wl, $1) eval
lt_tmp_static_flag="$LT_AC_TAGVAR(lt_prog_compiler_static, $1)"
AC_LIBTOOL_LINKER_OPTION([if $compiler static flag $lt_tmp_static_flag works],
  $LT_AC_TAGVAR(lt_cv_prog_compiler_static_works, $1),
  $lt_tmp_static_flag,
  []
)
# AC_LIBTOOL_PROG_LD_SHLIBS({TAGNAME})
#

# See if the linker supports building shared libraries.
AC_DEFUN([AC_LIBTOOL_PROG_LD_SHLIBS],
[AC_REQUIRE([LT_AC_PROG_SED])])
AC_MSG_CHECKING([whether the $compiler linker ($LD) supports shared libraries])
ifelse([$1], [CXX],
   _LT_AC_TAGVAR(export_symbols_cmds, $1)='$_NM $libobjs $convenience | $global_symbol_pipe | $SED \"s/.*\"| sort | uniq > $export_symbols'
   case $host_os in
   aix[\[4-9\]]*)
      # If we're using GNU nm, then we don't want the ".-C" option.
      # -C means demangle to AIX nm, but means don't demangle with GNU nm
      if $NM -V 2>&1 | grep 'GNU' > /dev/null; then
         _LT_AC_TAGVAR(export_symbols_cmds, $1)='$_NM -Bpg $libobjs $convenience | awk \"[ if (((|$2 == "T")
         || ($2 == "D") || ($2 == "B")) && ([substr](|$3,1,1) != ").") { print |$3 ; }\" | sort -u > $export_symbols'
      else
         _LT_AC_TAGVAR(export_symbols_cmds, $1)='$_NM -BCpg $libobjs $convenience | awk \"[ if (((|$2 == "T")
         || ($2 == "B") || ($2 == "B")) && ([substr](|$3,1,1) != ").") { print |$3 ; }\" | sort -u > $export_symbols'
      fi
   ;;
   pw32*)
      _LT_AC_TAGVAR(export_symbols_cmds, $1)='"$ltdll_cmds"
   ;;
   cygwin* | mingw*)
      _LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM Slibobjs $convenience | $global_symbol_pipe | $SED -e
         /\"[^BCDGRS][ ]/\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|
         DATA/\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|
         DATA/\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|s/.*\|
         | sort | uniq > $export_symbols'
   ;;
   *)
      _LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM Slibobjs $convenience | $global_symbol_pipe | $SED
         \"s/.*\|s/.*\|sort | uniq > $export_symbols'
   ;;
   esac
   _LT_AC_TAGVAR(exclude_expsyms, $1)="[\'_GLOBAL_OFFSET_TABLE_|\'_GLOBAL__F[\_ID|\_*]"
   ],
runpath_var=
   _LT_AC_TAGVAR(allow_undefined_flag, $1)=""
   _LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)="no"
   _LT_AC_TAGVAR(archive_cmds, $1)=
   _LT_AC_TAGVAR(archive_expsyms_cmds, $1)=
   _LT_AC_TAGVAR(archive_from_new_cmds, $1)=
   _LT_AC_TAGVAR(archive_from_expsyms_cmds, $1)=
   _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
}
# The following variables are used in the configuration script.

`whole_archive_flag_spec`: Specifies the flag to use when building shared libraries.

`thread_safe_flag_spec`: Specifies the flag to use when building thread-safe libraries.

`hardcode_libdir_flag_spec`: Specifies whether to hardcode the library directory.

`hardcode_libdir_flag_spec_ld`: Specifies whether to hardcode the library directory for dynamic linking.

`hardcode_libdir_separator`: Specifies the separator to use when hardcoding the library directory.

`hardcode_direct`: Specifies whether to hardcode the library directory directly.

`hardcode_minus_L`: Specifies whether to hardcode the `-L` flag.

`hardcode_shlibpath_var`: Specifies whether to hardcode the `shlibpath` variable.

`link_all_deplibs`: Specifies whether to link all dependent libraries.

`module_cmds`: Specifies the commands to use for building modules.

`module_expsym_cmds`: Specifies the commands to use for exporting symbols.

`always_export_symbols`: Specifies whether symbols should be always exported.

`export_symbols_cmds`: Specifies the commands to use for exporting symbols.

`include_expsyms`: Specifies the symbols to include in the symbol list.

`exclude_expsyms`: Specifies the symbols to exclude from the symbol list.

`cc_basename`: Specifies the default name for the C compiler.

`host_os`: Specifies the operating system.

`GCC`: Specifies whether GCC is being used.

`with_gnu_ld`: Specifies whether GNU ld is being used.

`cygwin* | mingw* | pw32*`:
- FIXME: The MSVC++ port hasn't been tested in a looong time
- # When not using gcc, we currently assume that we are using
- # Microsoft Visual C++.
- if test ":$SGCC" != yes; then
-   with_gnu_ld=no
- fi
- ;;
- interix*):
- # we just hope/assume this is gcc and not c89 (= MSVC++)
- with_gnu_ld=yes
- ;;
- openbsd*):
- with_gnu_ld=no
esac

LT_AC_TAGVAR(ld_shlibs, $1)=yes
if test "$with_gnu_ld" = yes; then
    # If archive_cmds runs LD, not CC, wlarc should be empty
    wlarc="$wl"

    # Set some defaults for GNU ld with shared library support. These
    # are reset later if shared libraries are not supported. Putting them
    # here allows them to be overridden if necessary.
    runpath_var=LD_RUN_PATH
    LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$wl"--rpath "$wl$libdir"
    LT_AC_TAGVAR(export_dynamic_flag_spec, $1)="$wl"--export-dynamic'
    # ancient GNU ld didn't support --whole-archive et. al.
    if $LD --help 2>&1 | grep 'no-whole-archive' > /dev/null; then
        LT_AC_TAGVAR(whole_archive_flag_spec, $1)="'$wlarc'--whole-archive$convenience '"'$wlarc'--no-whole-archive'
    else
        LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
    fi

    supports_anon_versioning=no
    case "$LD -v 2>/dev/null" in
    *\[01].* | *\[0-9].* | *2.10..*) ;; # catch versions < 2.11
    *2.11.93.0.2.*) supports_anon_versioning=yes ;; # RH7.3 ...
    *2.11.92.0.12.*) supports_anon_versioning=yes ;; # Mandrake 8.2 ...
    *2.11.*) ;; # other 2.11 versions
    *) supports_anon_versioning=yes ;;
    esac

    # See if GNU ld supports shared libraries.
    case $host_os in
    aix\[3-9].*)
        # On AIX/PPC, the GNU linker is very broken
        if test "$host_cpu" != ia64; then
            LT_AC_TAGVAR(ld_shlibs, $1)=no
        esac
    esac

    *** Warning: the GNU linker, at least up to release 2.9.1, is reported
    *** to be unable to reliably create shared libraries on AIX.
    *** Therefore, libtool is disabling shared libraries support. If you
    *** really care for shared libraries, you may want to modify your PATH
    *** so that a non-GNU linker is found, and then restart.

    EOF
    fi

EOF
amigaos*)

LT_AC_TAGVAR(archive_cmds, $1)="$rm $output_objdir/a2ixlibrary.data~$echo "#define NAME $libname"
> $output_objdir/a2ixlibrary.data~$echo "#define LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo "#define VERSION $major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION $revision" >> $output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib $libobjs~$RANLIB $lib~(cd $output_objdir && a2ixlibrary -32)"

LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
LT_AC_TAGVAR(hardcode_minus_L, $1)=yes

# Samuel A. Falvo II <kc5tja@dolphin.openprojects.net> reports
# that the semantics of dynamic libraries on AmigaOS, at least up
# to version 4, is to share data among multiple programs linked
# with the same dynamic library. Since this doesn't match the
# behavior of shared libraries on other platforms, we can't use
# them.
LT_AC_TAGVAR(ld_shlibs, $1)=no
;

beos*)
if SLD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
# Joseph Beckenbach <jrb3@best.com> says some releases of gcc
# support --undefined. This deserves some investigation. FIXME
LT_AC_TAGVAR(archive_cmds, $1)="$CC -nostart $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname -o $lib"
else
LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;

cygwin* | mingw* | pw32*)
# _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) is actually meaningless,
# as there is no search path for DLLs.
LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
LT_AC_TAGVAR(always_export_symbols, $1)=no
LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes
LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM $libobjs $convenience | $global_symbol_pipe | $SED -e "'\"\"/^[BCDGRS][I][I][ ]*/[^ ]*\)/[ ]*DATA/\" -e \"[[A[ITW]][I][I][I]/\" sort | uniq > $export_symbols'"'

if SLD --help 2>&1 | grep 'auto-import' > /dev/null; then
LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags -o
$output_objdir/$soname $wl--enable-auto-image-base -Xlinker --out-implib -Xlinker $lib"
# If the export-symbols file already is a .def file (1st line
# is EXPORTS), use it as is; otherwise, prepend...
LT_AC_TAGVAR(archive_expsym_cmds, $1)="if test "x$SED 1q $export_symbols" = xEXPORTS; then
cp $export_symbols $output_objdir/$soname.def;
else
echo EXPORTS > $output_objdir/$soname.def;
cat $export_symbols >> $output_objdir/$soname.def;
fi~
$CC -shared $output_objdir/$soname.def $libobjs $deplibs $compiler_flags -o $output_objdir/$soname $wl
-enable-auto-image-base -Xlinker --out-implib -Xlinker $lib'
else
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;

interix[3-9]*)
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
# Hack: On Interix 3.x, we cannot compile PIC because of a broken gcc.
# Instead, shared libraries are loaded at an image base (0x10000000 by
# default) and relocated if they conflict, which is a slow very memory
# consuming and fragmenting process. To avoid this, we pick a random,
# 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at link
# time. Moving up from 0x10000000 also allows more sbrk(2) space.
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag $libobjs $deplibs $compiler_flags $wl-
-h,$soname $wl--image-base,expr $(RANDOM-$$$) % 4096 / 2 \* 262144 + 1342177280' -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed "s,^,", $export_symbols
>$output_objdir/$soname.expsym" $CC -shared $pic_flag $libobjs $deplibs $compiler_flags $wl-
-h,$soname $wl--retain-symbols-file,$output_objdir/$soname.expsym $wl--image-base,expr $(RANDOM-$$$) % 4096 / 2
\* 262144 + 1342177280' -o $lib'
;;
gnu* | linux* | k*bsd*-gnu)
if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
tmp_addflag=
case $cc_basename,$host_cpu in
pgcc*)		# Portland Group C compiler
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)="/\"$new_convenience\"";
done; $echo "\"$new_convenience\"" $wl--no-whole-archive'
tmp_addflag=' $pic_flag'
;;
pgf77* | pgf90* | pgf95*)	# Portland Group f77 and f90 compilers
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)="/\"$new_convenience\"";
done; $echo "\"$new_convenience\"" $wl--no-whole-archive'
tmp_addflag=' $pic_flag -Mnomain'
;;
ecc*,ia64* | icc*,ia64*)	# Intel C compiler on ia64
/tmp_addflag='-i_dynamic'
;;
efc*,ia64* | ifort*,ia64*)	# Intel Fortran compiler on ia64
/tmp_addflag='-i_dynamic -nofor_main'
;
ifc* | ifort*)
  tmp_addflag=' -nofor_main' ;;
esac

  case `$CC -V 2>&1 | sed 5q` in
*Sun\C*)# Sun C 5.9
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$\{wl\}--whole-archive\new_convenience=-; for conv in $\{convenience\}"; do test -z "$\{conv\}" || new_convenience="\$\{new_convenience,\$\{conv\}"; done; $echo "$\{new_convenience\}" "$\{wl\}--no-whole-archive'
    tmp_sharedflag='-G' ;;
*Sun\F*)# Sun Fortran 8.3
    tmp_sharedflag='-G' ;;
*)
  tmp_sharedflag='-shared' ;;
esac

  _LT_AC_TAGVAR(archive_cmds, $1)="$CC ""$tmp_sharedflag""$tmp_addflag" $libobjs $deplibs $compiler_flags $\{wl\}-soname $wl$soname -o $lib'

  if test $supports_anon_versioning = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)="$echo "{ global:" > $output_objdir/$libname.ver~
    cat $export_symbols | sed -e "s/(.*)/\1/" >> $output_objdir/$libname.ver~
    $echo "local: *; };" >> $output_objdir/$libname.ver~
    $CC ""$tmp_sharedflag""$tmp_addflag" $libobjs $deplibs $compiler_flags $\{wl\}-soname $wl$soname $\{wl\}-version-script $\{wl\}$output_objdir/$libname.ver -o $lib'
    fi
  else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    fi
  ;;

  netbsd*)
    if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
      _LT_AC_TAGVAR(archive_cmds, $1)="$LD -Bshareable $libobjs $deplibs $linker_flags -o $lib'
      wlarc=
    else
      _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags $\{wl\}-soname $wl$soname -o $lib'
      _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags $\{wl\}-soname $wl$soname $\{wl\}-retain-symbols-file $wl$export_symbols -o $lib'
      fi
  ;;

  solaris*)
    if $LD -v 2>&1 | grep 'BFD 2.8' > /dev/null; then
      _LT_AC_TAGVAR(ld_shlibs, $1)=no
      cat <<EOF 1>&2
*** Warning: The releases 2.8.* of the GNU linker cannot reliably
*** create shared libraries on Solaris systems. Therefore, libtool
*** is disabling shared libraries support. We urge you to upgrade GNU
*** binutils to release 2.9.1 or newer. Another option is to modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

EOF

elif $LD --help 2>&1 | grep ': supported targets:* elf' > /dev/null; then

_LT_AC_TAGVAR(archive_cmds, $1)='CC -shared $libobjs $deplibs $compiler_flags $(wl)-soname
Swl$soname -$lib'

_LT_AC_TAGVAR(archive_expsym_cmds, $1)='CC -shared $libobjs $deplibs $compiler_flags $(wl)-soname
Swl$soname $(wl)-retain-symbols-file Swl$export_symbols -o $lib'
else

_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

;;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX*)
case 'LD -v 2>&1' in
  *[[:0-1]].* | *\[0-9].* | *\[0-5].*)

_LT_AC_TAGVAR(ld_shlibs, $1)=no

cat <<_LT_EOF 1>&2

*** Warning: Releases of the GNU linker prior to 2.16.91.0.3 can not
*** reliably create shared libraries on SCO systems. Therefore, libtool
*** is disabling shared libraries support. We urge you to upgrade GNU
*** binutils to release 2.16.91.0.3 or newer. Another option is to modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

_LT_EOF

;;

*)
if $LD --help 2>&1 | grep ': supported targets:* elf' > /dev/null; then

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="test -z "$SCOABSPATH" && echo ${wl}-rpath,$libdir"

_LT_AC_TAGVAR(archive_cmds, $1)="CC -shared $libobjs $deplibs $compiler_flags $(wl)-soname,${SCOABSPATH:+$[install_libdir]/}"$soname -$lib'

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="CC -shared $libobjs $deplibs $compiler_flags $(wl)-soname,${SCOABSPATH:+$[install_libdir]/}"$soname,-retain-symbols-file,$export_symbols -o $lib'
else

_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi

;;
esac

;;
sunos4*)

_LT_AC_TAGVAR(archive_cmds, $1)="$LD -assert pure-text -Bshareable -o $lib $libobjs $deplibs
$linker_flags"
if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags $wl$soname $wl$soname -o $lib"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags $wl$soname $wl$soname $wl,retain-symbols-file $wl$export_symbols -o $lib"
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi
fi
esac

if test "$_LT_AC_TAGVAR(ld_shlibs, $1)" = no; then
  runpath_var=
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
fi
else
  # PORTME fill in a description of your system's linker (not GNU ld)
  case $host_os in
    aix3*)
      _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
      _LT_AC_TAGVAR(always_export_symbols, $1)=yes
      _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$LD -o $output_objdir/$soname $libobjs $deplibs $linker_flags -bE:$export_symbols -T512 -H512 -bM:SRE~$AR $AR_FLAGS $lib $output_objdir/$soname"
      # Note: this linker hardcodes the directories in LIBPATH if there
      # are no directories specified by -L.
      _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
      if test "$GCC" = yes && test -z "$lt_prog_compiler_static"; then
        # Neither direct hardcoding nor static linking is supported with a
        # broken collect2.
        _LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
      fi
      ::
    aix[[4-9]])
      if test "$host_cpu" = ia64; then
        # On IA64, the linker does run time linking by default, so we don't
        # have to do anything special.
        aix_use_runtimelinking=no
        exp_sym_flag='-Bexport'
        no_entry_flag=""
      else
        _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags $wl$soname $wl$soname -o $lib"
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $libobjs $deplibs $compiler_flags $wl$soname $wl$soname $wl,retain-symbols-file $wl$export_symbols -o $lib"
        _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
        fi
      esac
    esac
  esac

  if test "$_LT_AC_TAGVAR(ld_shlibs, $1)" = no; then
    runpath_var=
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
    fi
  fi
else
  # If we're using GNU nm, then we don't want the ".C" option.
  # ".C" means demangle to AIX nm, but means don't demangle with GNU nm
  if $NM -V 2>&1 | grep 'GNU' > /dev/null; then
    _LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM -Bpg $libobjs $convenience | awk '{ if (((\[$]2 == "T") || ([S]2 == "D") || ([S]2 == "B")) && ([substr](\[$]3,1,1) != ".") { print \[$]3 } }' | sort -u > $export_symbols'
  else
    _LT_AC_TAGVAR(export_symbols_cmds, $1)="$NM -BCpg $libobjs $convenience | awk '{ if (((\[$]2 == "T") || ([S]2 == "D") || ([S]2 == "B")) && ([substr](\[$]3,1,1) != ".") { print \[$]3 } }' | sort -u > $export_symbols'
  fi
  aix_use_runtimelinking=no

  # Test if we are trying to use run time linking or normal
  # AIX style linking. If -brtl is somewhere in LDFLAGS, we
  # need to do runtime linking.
  case $host_os in
    aix4.*[012]*|aix4.*[012]*)
      for ld_flag in $LDFLAGS; do
        if (test $ld_flag = "-brtl" || test $ld_flag = "-Wl,-brtl"); then
          aix_use_runtimelinking=yes
          break
        fi
      done
      ;;
esac

  exp_sym_flag='-bexport'
  no_entry_flag='-bnoentry'
  fi

  # When large executables or shared objects are built, AIX ld can
  # have problems creating the table of contents. If linking a library
  # or program results in "error TOC overflow" add -mminimal-toc to
  # CXXFLAGS/CFLAGS for g++/gcc. In the cases where that is not
  # enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.

  _LT_AC_TAGVAR(archive_cmds, $1)="
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
  _LT_AC_TAGVAR(link_all_deplibs, $1)=yes

  if test "$GCC" = yes; then
    case $host_os in
      aix4.*[012]*|aix4.*[012]*)
        # We only want to do this on AIX 4.2 and lower, the check
        # below for broken collect2 doesn't work under 4.3+
        collect2name='${CC} -print-prog-name=collect2'
        if test -f $collect2name && strings "$collect2name" | grep resolve_lib_name >/dev/null
          then
            collect2name=${CC} -print-prog-name=collect2
          fi
        else
          collect2name=${CC} -print-prog-name=collect2
        fi
        break
      ;;
esac
      ;;
esac

  strings "$collect2name" | grep resolve_lib_name >/dev/null
  then

  # If the `${collect2name} -print-special-labels` output contains...
# We have reworked collect2
#
else
# We have old collect2
_LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
# It fails to find uninstalled libraries when the uninstalled
# path is not listed in the libpath. Setting hardcode_minus_L
# to unsupported forces relinking
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
fi
;;
esac
shared_flag='-shared'
if test "$aix_use_runtimelinking" = yes; then
  shared_flag="$shared_flag "$wl"-G"
fi
else
# not using gcc
if test "$host_cpu" = ia64; then
  # VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
  # chokes on -Wl,-G. The following line is correct:
  shared_flag='-G'
else
  if test "$aix_use_runtimelinking" = yes; then
    shared_flag="${wl}-G"
  else
    shared_flag="${wl}-bM:SRE"
  fi
fi
fi

# It seems that -bexpall does not export symbols beginning with
# underscore (_), so it is better to generate a list of symbols to export.
_LT_AC_TAGVAR(always_export_symbols, $1)=yes
if test "$aix_use_runtimelinking" = yes; then
  # Warning - without using the other runtime loading flags (-brtl),
  # -berok will link without error, but may produce a broken library.
  _LT_AC_TAGVAR(allow_undefined_flag, $1)='-berok'
  # Determine the default libpath from the value encoded in an empty executable.
  _LT_AC_SYS_LIBPATH_AIX
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="${wl}-blibpath:${libdir}"$aixLibpath"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)=""$CC" -o $output_objdir/$soname $libobjs $deplib
  "$wl"$no_entry_flag"$compiler_flags if test "x$allow_undefined_flag" != "x"; then echo
  "$wl"$allow_undefined_flag" $shared_flag
  else : fi
  "$wl"$exp_sym_flag:$export_symbols $shared_flag
  else
    if test "$host_cpu" = ia64; then
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$wl}-R $libdir:/usr/lib:/lib"
_LT_AC_TAGVAR(allow_undefined_flag, $1)="-z nodefs"
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC $shared_flag" -o $output_objdir/$soname $libobjs $deplibs ""$wl}$no_entry_flag" $compiler_flags $(wl){allow_undefined_flag} ""%$wl}$exp_sym_flag:export_symbols"
else

# Determine the default libpath from the value encoded in an empty executable.
_ LT AC SYS_LIBPATH_AIX
_ LT AC_TAGVAR(hardcode_libdir_flag_spec, $1)="$wl}-blibpath:$libdir:"$aix_libpath"
# Warning - without using the other run time loading flags,
# -berok will link without error, but may produce a broken library.
_ LT AC_TAGVAR(no_undefined_flag, $1)=' ${wl}-bernotok'
_ LT AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-berok'
# Exported symbols can be pulled into shared objects from archives
_ LT AC_TAGVAR(whole_archive_flag_spec, $1)='$convenience'
_ LT AC_TAGVAR(archive_cmds_need_lc, $1)=yes
# This is similar to how AIX traditionally builds its shared libraries.
_ LT AC_TAGVAR(archive_expsym_cmds, $1)="$CC $shared_flag" -o $output_objdir/$soname $libobjs $deplibs ${wl}-bnoentry $compiler_flags ${wl}-bE:$export_symbols$[allow_undefined_flag]~$AR $AR_FLAGS $output_objdir/$libname$release.a $output_objdir/$soname'
fi
fi
;

amigaos*)
_ LT AC.getTag(variable, $1)='a2ilibrary.data~$echo "#define NAME $libname"
> $output_objdir/a2ixlibrary.data~$echo "#define LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo "#define VERSION $major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION $revision" >> $output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib $libobjs~$RANLIB $lib~(cd $output_objdir & & a2ixlibrary -32)'
_ LT AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-LS$libdir'
_ LT AC_TAGVAR(hardcode_minus_L, $1)=yes
# see comment about different semantics on the GNU ld section
_ LT AC_TAGVAR(ld_shlibs, $1)=no
;

bsdi[[45]])
_ LT AC_TAGVAR(export_dynamic_flag_spec, $1)=rhdynamic
;

cygwin* | mingw* | pw32*)
# When not using gcc, we currently assume that we are using
# Microsoft Visual C++.
# hardcode_libdir_flag_spec is actually meaningless, as there is
# no search path for DLLs.
_ LT AC_TAGVAR(hardcode_libdir_flag_spec, $1)=''
_ LT AC_TAGVAR(allow_undefined_flag, $1)=unsupported
# Tell ltmain to make .lib files, not .a files.
libext=lib

# Tell ltmain to make .dll files, not .so files.
shrext_cmds=".dll"

# FIXME: Setting linknames here is a bad hack.
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -o $lib $libobjs $compiler_flags 'echo "$deplibs" | $SED -e \"s/-/\c$/\"\" -link -dll -linknames="'

# The linker will automatically build a .lib file if we build a DLL.
_LT_AC_TAGVAR(old_archive_From_new_cmds, $1)='true'

# FIXME: Should let the user specify the lib program.
_LT_AC_TAGVAR(old_archive_cmds, $1)='lib -OUT:Soldlib$oldobjs$old_deplibs'
_LT_AC_TAGVAR(fix_srcfile_path, $1)='"cygpath -w "$srcfile""
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes

;;

darwin* | rhapsody*)

_LT_AC_TAGVAR(allow_undefined_flag, $1)="$_lt_dar_allow_undefined"
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_automatic, $1)=yes
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=""

_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

if test "$GCC" = yes ; then
    output_verbose_link_cmd='echo'

_LT_AC_TAGVAR(archive_cmds, $1)="$CC -dynamiclib $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags -install_name $rpath/$soname $verstring $_lt_dar_single_mod${_lt_dsymutil}"

_LT_AC_TAGVAR(module_cmds, $1)="$CC $allow_undefined_flag -o $lib -bundle $libobjs $deplibs $compiler_flags$[\_lt_dsymutil]"

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed 's^_\(\)\.$^\1\$^' < $export_symbols > $output_objdir/${libname}-symbols.expsym $CC -dynamiclib $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags -install_name $rpath/$soname $verstring $[\_lt_dar_single_mod]$[\_lt_dar_export_symbols]$[\_lt_dsymutil]"

_LT_AC_TAGVAR(module_expsym_cmds, $1)="sed -e 's^_\(\)\.$^\1\$^' < $export_symbols > $output_objdir/${libname}-symbols.expsym $CC -dynamiclib $allow_undefined_flag -o $lib -bundle $libobjs $deplibs $compiler_flags$[\_lt_dar_export_symbols]$[\_lt_dsymutil]"

else
    case $cc_basename in
    xlc*)
        output_verbose_link_cmd='echo'

_LT_AC_TAGVAR(archive_cmds, $1)="$CC -qmksrhrobj $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags $[wl]-install_name $[wl]'echo $rpath/$soname' $xlcverstring' $[wl]-dynamiclib $allow_undefined_flag -o $lib -bundle $libobjs $deplibs$compiler_flags'

    # Don't fix this by using the ld -exported_symbols_list flag, it doesn't exist in older darwin lds

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed -e 's#,.*, -e 's,$[^ ]*$," -e 's,$(.*))\&," < $export_symbols > $output_objdir/$[libname]-symbols.expsym $CC -qmksrhrobj $allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags $[wl]-install_name $[wl]$rpath/$soname $xlcverstring-nmedit -s $output_objdir/$[libname]-symbols.expsym $[lib]'
_LT_AC_TAGVAR(module_expsym_cmds, $1)=\$sed -e "s,\.#,\.” -e "s,^[ 	]*\," -e "s,^[\(\(.*\))].\&," < $export_symbols > $output_objdir/$[libname]-symbols.expsym-$SCC $allow_undefined_flag -o $lib $bundle $libobjs $deplibs $c compiler_flags-nmedit -s $output_objdir/$[libname]-symbols.expsym $[lib]'

"
*);

_\LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
ci
;;
dgux*)
_\LT_AC_TAGVAR(archive_cmds, $1)=\$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
_\LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=-'$libdir'
_\LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;

freebsd1*)
_\LT_AC_TAGVAR(ld_shlibs, $1)=no
;;

# FreeBSD 2.2.[012] allows us to include c++rt0.o to get C++ constructor
# support. Future versions do this automatically, but an explicit c++rt0.o
# does not break anything, and helps significantly (at the cost of a little
# extra space).
freebsd2.2*)
_\LT_AC_TAGVAR(archive_cmds, $1)=\$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags
/usr/lib/c++/c++rt0.o'
_\LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=-'$libdir'
_\LT_AC_TAGVAR(hardcode_direct, $1)=yes
_\LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;

# Unfortunately, older versions of FreeBSD 2 do not have this feature.
freebsd2*)
_\LT_AC_TAGVAR(archive_cmds, $1)=\$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags'
_\LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=yes
_\LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
_\LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;

# FreeBSD 3 and greater uses gcc -shared to do shared libraries.
freebsd* | dragonfly*)
_\LT_AC_TAGVAR(archive_cmds, $1)=\$CC -shared -o $lib $libobjs $deplibs $compiler_flags'
_\LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=-'$libdir'
_\LT_AC_TAGVAR(hardcode_direct, $1)=yes
_\LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;
if test "SGCC" = yes; then
  _LT_AC_TAGVAR(archive_cmds, $1)="$rm $output_objdir/$soname -$CC -shared -fPIC ${wl}+b
  $[wl]$install_libdir -o $output_objdir/$soname $libobjs $deplibs $compiler_flags -test $output_objdir/$soname = $lib || mv $output_objdir/$soname $lib"
  else
    _LT_AC_TAGVAR(archive_cmds, $1)="$rm $output_objdir/$soname -$LD -b +b $install_libdir -o
  $output_objdir/$soname $libobjs $deplibs $linker_flags -test $output_objdir/$soname = $lib || mv
  $output_objdir/$soname $lib"
    fi
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="${wl}+b ${wl}$libdir"
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes

# hardcode_minus_L: Not really in the search PATH,
# but as the default location of the library.
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)="${wl}-E"
  ;;

hpux9*)
  if test "SGCC" = yes -a "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -fPIC ${wl}+h ${wl}$soname ${wl}+b ${wl}$install_libdir
    -o $lib $libobjs $deplibs $compiler_flags"
  else
    _LT_AC_TAGVAR(archive_cmds, $1)="$LD -b +h $soname +b $install_libdir -o $lib $libobjs $deplibs
    $linker_flags"
    if test "$with_gnu_ld" = no; then
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="${wl}+b ${wl}$libdir"
      _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
      _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    fi
  ;;

hpux10*)
  if test "SGCC" = yes -a "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared -fPIC ${wl}+h ${wl}$soname ${wl}+b ${wl}$install_libdir
    -o $lib $libobjs $deplibs $compiler_flags"
  else
    _LT_AC_TAGVAR(archive_cmds, $1)="$LD -b +h $soname +b $install_libdir -o $lib $libobjs $deplibs
    $linker_flags"
    if test "$with_gnu_ld" = no; then
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="${wl}+b ${wl}$libdir"
      _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
      _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    fi
  ;;

hpux11*)
  if test "SGCC" = yes -a "$with_gnu_ld" = no; then
    case $host_cpu in
      hppa*64*)
      _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared ${wl}+h ${wl}$soname -o $lib $libobjs $deplibs
      $compiler_flags"
    esac
  fi
}
# Open Source Used in Cisco Unified Communication Manager 12.0.1.SU5

```bash
:: ia64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='CC -shared $wl+h $wl$soname $wl+nodefaultpath -o $lib $libobjs $deplibs $compiler_flags'
    :: *)
    _LT_AC_TAGVAR(archive_cmds, $1)='CC -shared -fPIC $wl+h $wl$soname $wl+b $wl$install_libdir -o $lib $libobjs $deplibs $compiler_flags'
    :: esac
    else
    case $host_cpu in
    hppa*64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='CC -b $wl+h $wl$soname -o $lib $libobjs $deplibs $compiler_flags'
    :: i686*)
    _LT_AC_TAGVAR(archive_cmds, $1)='CC -b $wl+h $wl$soname $wl+nodefaultpath -o $lib $libobjs $deplibs $compiler_flags'
    :: *)
    _LT_AC_TAGVAR(archive_cmds, $1)='CC -b $wl+h $wl$soname $wl+b $wl$install_libdir -o $lib $libobjs $deplibs $compiler_flags'
    :: esac
    fi
    if test "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
    case $host_cpu in
    hppa*64*|ia64*)
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)='+b $libdir'
    _LT_AC_TAGVAR(hardcode_direct, $1)=no
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    :: *)
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
    # hardcode_minus_L: Not really in the search PATH,
    # but as the default location of the library.
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
    :: esac
    fi
    ::
```
irix5* | irix6* | nonstopux*)
  if test "SGCC" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)="CC -shared $libobjs $deplib $compiler_flags $wl-soname
    $wl$soname test-n "$version" && echo $wl-set_version $wl$version' $wl-update_registry
    $wl$wloutput_objdir/so_locations -o $lib'
    else
      _LT_AC_TAGVAR(archive_cmds, $1)="$LD -shared $libobjs $deplib $linker_flags -soname $soname test-n
      "$version" && echo set_version "$version" update_registry $wloutput_objdir/so_locations -o $lib'
    fi
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath $libdir'
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)="-rpath $libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=":"
    _LT_AC_TAGVAR(link_all_deplib, $1)="yes"
  ;;
  netbsd*)
    if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
      _LT_AC_TAGVAR(archive_cmds, $1)="$LD -Bshareable -o $lib $libobjs $deplib $linker_flags'
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath $libdir'
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)="-R$libdir'
      _LT_AC_TAGVAR(hardcode_direct, $1)="yes"
      _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)="no"
    else
      _LT_AC_TAGVAR(archive_cmds, $1)="$LD -G -h $soname -o $lib $libobjs $deplib $linker_flags'
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath $libdir'
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)="-rpath $libdir'
      _LT_AC_TAGVAR(hardcode_direct, $1)="yes"
      _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)="no"
    ;;
  newsos6)
    _LT_AC_TAGVAR(archive_cmds, $1)="$LD -G -h $soname -o $lib $libobjs $deplib $linker_flags'
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath $libdir'
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)="-R$libdir'
    _LT_AC_TAGVAR(hardcode_direct, $1)="yes"
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)="no"
    ;;
  openbsd*)
    if test -f /usr/libexec/ld.so; then
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath $libdir'
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)="-R$libdir'
      _LT_AC_TAGVAR(hardcode_direct, $1)="yes"
      _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)="no"
    else
      _LT_AC_TAGVAR(archive_cmds, $1)="$LD -G -h $soname -o $lib $libobjs $deplib $linker_flags'
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="-rpath $libdir'
      _LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)="-R$libdir'
      _LT_AC_TAGVAR(hardcode_direct, $1)="yes"
      _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)="no"
    ;;
  ;;
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=-R$libdir
;;
*)
_LT_AC_TAGVAR(archive_cmds, $1)=-SCC -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
;;
esac
fi
else
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;

os2*)
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=-L$libdir
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
_LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
_LT_AC_TAGVAR(archive_cmds, $1)='Secho "LIBRARY $libname INITINSTANCE" >
>$output_objdir/$libname.def~$echo "DESCRIPTION "$libname"" >> $output_objdir/$libname.def~$echo DATA
>> $output_objdir/$libname.def~$echo "SINGLE NONSHARED" >> $output_objdir/$libname.def~$echo
EXPORTS >> $output_objdir/$libname.def~$emxexp $libobjs >> $output_objdir/$libname.def~$CC -Zdll -Zcrtdll -
o $lib $libobjs $deplibs $compiler_flags $output_objdir/$libname.def'
_LT_AC_TAGVAR(old_archive_From_new_cmds, $1)="emximp -o $output_objdir/$libname.a
$output_objdir/$libname.def'
;;

osf3*)
if test "$GCC" = yes; then
_LT_AC_TAGVAR(allow_undefined_flag, $1)="$wl-expect_unresolved "$wl\"
_LT_AC_TAGVAR(archive_cmds, $1)="$SCC -shared$allow_undefined_flag $libobjs $deplibs $compiler_flags
$wl-soname $wl$wl-set_version $wl$wl-verstring' $wl-update_registry $wl$wl-output_objdir)/so_locations -o $lib'
else
_LT_AC_TAGVAR(allow_undefined_flag, $1)="-expect_unresolved "
_LT_AC_TAGVAR(archive_cmds, $1)="$LD -shared$allow_undefined_flag $libobjs $deplibs $linker_flags -
soname $soname 'test -n "$verstring" && echo $wl-set_version $wl-verstring' -update_registry $wl$wl-output_objdir)/so_locations -o $lib'
fi
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="'$wl-rlpath $wl$wl'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
;;

osf4* | osf5*) as osf3* with the addition of -msym flag
if test "$GCC" = yes; then
_LT_AC_TAGVAR(allow_undefined_flag, $1)="$wl-expect_unresolved "$wl\"
_LT_AC_TAGVAR(archive_cmds, $1)="$SCC -shared$allow_undefined_flag $libobjs $deplibs $compiler_flags
$wl-msym $wl-soname $wl$wlsoname 'test -n "$verstring" && echo $wl-set_version $wl-verstring' -update_registry
$wl-update_registry $wl$wl-output_objdir)/so_locations -o $lib'

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```bash
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-rpath $libdir'
else
_LT_AC_TAGVAR(allow_undefined_flag, $1)='-expect_unresolved \n'
_LT_AC_TAGVAR(archive_cmds, $1)="/LD -shared\{ allow_undefined_flag \} $libobjs $deplibs $linker_flags -msym -soname $soname 'test -n "$verstring" && echo -set_version $verstring' -update_registry $\{output_objdir\}/so_locations -o $lib"
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="/for i in "cat $export_symbols"; do printf "%s %s\n" -exported_symbol "$i" >> $lib.exp; done; echo "-hidden"" >> $lib.exp~
$LD -shared\{ allow_undefined_flag \} -input $lib.exp $linker_flags $libobjs $deplibs -soname $soname 'test -n "$verstring" && echo -set_version $verstring' -update_registry $\{output_objdir\}/so_locations -o $lib~rm $lib.exp"

# Both c and cxx compiler support -rpath directly
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-rpath $libdir'
f
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
;

solaris*)
_LT_AC_TAGVAR(no_undefined_flag, $1)=' -z text'
if test "$GCC" = yes; then
wlarcs="/w1"
_LT_AC_TAGVAR(archive_cmds, $1="/CC -shared $\{w1\}-h $\{w1\}$soname -o $lib $libobjs $deplibs $compiler_flags"

_LT_AC_TAGVAR(archive_expsym_cmds, $1="/echo "{ global:" > $lib.exp~cat $export_symbols | $SED -e "s/\(.*\)/\1/;" >> $lib.exp~
$CC -shared $\{w1\}-M $\{w1\}$lib.exp $\{w1\}-h $\{w1\}$soname -o $lib $libobjs $deplibs $compiler_flags~rm $lib.exp"
else
wlarcs=""
_LT_AC_TAGVAR(archive_cmds, $1="/LD -G\{ allow_undefined_flag \} -h $soname -o $lib $libobjs $deplibs $linker_flags"
_LT_ACCESS_TAGVAR(archive_expsym_cmds, $1="/echo "{ global:" > $lib.exp~cat $export_symbols | $SED -e "s/\(.*\)/\1/;" >> $lib.exp~
$LD -G\{ allow_undefined_flag \} -M $\{w1\}$lib.exp $\{w1\}-h $\{w1\}$soname -o $lib $libobjs $deplibs $compiler_flags~rm $lib.exp"
fi
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="/R\$libdir"
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
case $host_os in
solaris2.[0-5] | solaris2.[0-5].*) ;;
*)
# The compiler driver will combine and reorder linker options,
# but understands '-z linker_flag'. GCC discards it without '$wl',
# but is careful enough not to reorder.
# Supported since Solaris 2.6 (maybe 2.5.1?)
if test "$GCC" = yes; then
_LT_AC_TAGVAR(whole_archive_flag_spec, $1="/z $\{w1\}z $\{w1\}allextract$convenience $\{w1\}z $\{w1\}defaultextract"
else
```

_LT_AC_TAGVAR(whole_archive_flag_spec, $1)="-z allextract$convenience -z defaultextract"
fi
;;
esac

_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
;;
sunos4*)
if test "x$host_vendor" = xsequent; then
# Use $CC to link under sequent, because it throws in some extra .o
# files that make .init and .fini sections work.
_LT_AC_TAGVAR(archive_cmds, $1)="$CC -G $[wl]-h $soname -o $lib $libobjs $deplibs $compiler_flags"
else
_LT_AC_TAGVAR(archive_cmds, $1)="$LD -assert pure-text -Bstatic -o $lib $libobjs $deplibs $linker_flags"
fi
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;
sysv4)
case $host_vendor in
sni)
_LT_AC_TAGVAR(archive_cmds, $1)="$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags"
_LT_AC_TAGVAR(hardcode_direct, $1)=yes # is this really true???
;;
siemens)
## LD is ld it makes a PLAMLIB
## CC just makes a GrossModule.
_LT_AC_TAGVAR(archive_cmds, $1)="$LD -G -o $lib $libobjs $deplibs $linker_flags"
_LT_AC_TAGVAR(reload_cmds, $1)="$CC -r -o $output$reload_objs"
_LT_AC_TAGVAR(hardcode_direct, $1)=no
;;
motorola)
_LT_AC_TAGVAR(archive_cmds, $1)="$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags"
_LT_AC_TAGVAR(hardcode_direct, $1)=no #Motorola manual says yes, but my tests say they lie
;;
esac
runpath_var='LD_RUN_PATH'
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;
sysv4.3*)
_LT_AC_TAGVAR(archive_cmds, $1)="$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags"
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)="-Bexport"
sysv4*MP*)
if test -d /usr/nec; then
  _LT_AC_TAGVAR(archive_cmds, $1)="$LD -G $h soname -o $lib $libobjs $deplibs $linker_flags"
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
runpath_var=LD_RUN_PATH
hardcode_runpath_var=yes
_LT_AC_TAGVAR(ld_shlibs, $1)=yes
  fi
;

sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.*[01][10]/* | unixware7* | sco3.2v5.0.[024]*)
  _LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
  _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  runpath_var='LD_RUN_PATH'
if test "$GCC" = yes; then
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared ${wl}-Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags"
else
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -G ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -G ${wl}-Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags"
  fi
;

sysv5* | sco3.2v5* | sco5v6*)
  # Note: We can NOT use -z defs as we might desire, because we do not
  # link with -lc, and that would cause any symbols used from libc to
  # always be unresolved, which means just about no library would
  # ever link correctly. If we're not using GNU ld we use -z text
  # though, which does catch some bad symbols but isn't as heavy-handed
  # as -z defs.
  _LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
  _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-z,nodefs'
  _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='test -z "$SCOABSPATH" && echo ${wl}-R,$libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':
  _LT_AC_TAGVAR(link_all_deplibs, $1)=yes
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-Bexport'
runpath_var='LD_RUN_PATH'
if test "$GCC" = yes; then
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -shared ${wl}-h,${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler_flags"

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -shared $wl-Bexport:$export_symbols $wl-h,$SCOABSPATH:+$install_libdir/$soname -o $lib $libobjs $deplibs $compiler_flags"
else
_ LT_AC_TAGVAR(archive_cmds, $1)="$CC -G $wl-h,$SCOABSPATH:+$install_libdir/$soname -o $lib $libobjs $deplibs $compiler_flags"
_ LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC -G $wl-Bexport:$export_symbols $wl-h,$SCOABSPATH:+$install_libdir/$soname -o $lib $libobjs $deplibs $compiler_flags"
fi

; 

uts4*)
_ LT_AC_TAGVAR(archive_cmds, $1)="$LD -G $soname -o $lib $libobjs $deplibs $linker_flags"
_ LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_ LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no

; 

*)
_ LT_AC_TAGVAR(ld_shlibs, $1)=no

; 
esac
fi
)
AC_MSG_RESULT([$_LT_AC_TAGVAR(ld_shlibs, $1)])
test "$_LT_AC_TAGVAR(ld_shlibs, $1)" = no & & can_build_shared=no

#
# Do we need to explicitly link libc?
#
case "$_LT_AC_TAGVAR(archive_cmds_need_lc, $1)" in
  xxyes)
    # Assume -lc should be added
    _ LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
  *
  esac
if test "$enable_shared" = yes & & test "$GCC" = yes; then
  case $_LT_AC_TAGVAR(archive_cmds, $1) in
    *
      # FIXME: we may have to deal with multi-command sequences.
      ; ;
      'GCC '*)
      # Test whether the compiler implicitly links with -lc since on some
      # systems, -lgcc has to come before -lc. If gcc already passes -lc
      # to ld, don't add -lc before -lgcc.
      AC_MSG_CHECKING([whether -lc should be explicitly linked in])
      $rm conftest*
      echo "$lt_simple_compile_test_code" > conftest.$ac_ext
      if AC_TRY_EVAL(ac_compile) 2>conftest.err; then
        soname=conftest
        can_build_shared=conftest
      fi
lib=conftest
libobjs=conftest.$ac_objext
deplibs=
wl=${_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)}
pic_flag=${_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)}
   compiler_flags=-v
   linker_flags=-v
   verstring=
   output_objdir=.
   libname=conftest
lt_save_allow_undefined_flag=${_LT_AC_TAGVAR(allow_undefined_flag, $1)}
   _LT_AC_TAGVAR(allow_undefined_flag, $1)=
   if AC_TRY_EVAL(_LT_AC_TAGVAR(archive_cmds, $1) 2>&1 | grep " -lc " /dev/null 2>&1)
   then
   _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
   else
   _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
   fi
   _LT_AC_TAGVAR(allow_undefined_flag, $1)=$lt_save_allow_undefined_flag
   else
   cat conftest.err 1>&5
   fi
   $rm conftest*
   AC_MSG_RESULT([${_LT_AC_TAGVAR(archive_cmds_need_lc, $1)}])
   ;;
esac
esac
]})# AC_LIBTOOL_PROG_LD_SHLIBS

# _LT_AC_FILE_LTDLL_C
# ---------------
# Be careful that the start marker always follows a newline.
AC_DEFUN([_LT_AC_FILE_LTDLL_C], [ # /* ltdll.c starts here */ #define WIN32_LEAN_AND_MEAN
#include <windows.h>
#undef WIN32_LEAN_AND_MEAN
#include <stdio.h>

#ifndef __CYGWIN__
   ifdef __CYGWIN32__
      define __CYGWIN__ __CYGWIN32__
   endif
endif
#endif


#ifdef __cplusplus
# extern "C" {
# #endif
# BOOL APIENTRY DllMain (HINSTANCE hInst, DWORD reason, LPVOID reserved);
# #ifdef __cplusplus
# }
# #endif
#
# #ifdef __CYGWIN__
# #include <cygwin/cygwin_dll.h>
# DECLARE_CYGWIN_DLL( DllMain );
# #endif
# HINSTANCE __hDllInstance_base;
#
# BOOL APIENTRY
# DllMain (HINSTANCE hInst, DWORD reason, LPVOID reserved)
# {
#   __hDllInstance_base = hInst;
#   return TRUE;
# }
# /* ltdll.c ends here */
})#_LT_AC_FILE_LTDLL_C

#_LT_AC_TAGVAR(VARNAME, [TAGNAME])
#---------------------------------
AC_DEFUN([_LT_AC_TAGVAR], [ifelse([$2], [], [$1], [$1_-$2])])

# old names
AC_DEFUN([AM_PROG_LIBTOOL], [AC_PROG_LIBTOOL])
AC_DEFUN([AM_ENABLE_SHARED], [AC_ENABLE_SHARED($@)])
AC_DEFUN([AM_ENABLE_STATIC], [AC_ENABLE_STATIC($@)])
AC_DEFUN([AM_DISABLE_SHARED], [AC_DISABLE_SHARED($@)])
AC_DEFUN([AM_DISABLE_STATIC], [AC_DISABLE_STATIC($@)])
AC_DEFUN([AM_PROG_LD], [AC_PROG_LD])
AC_DEFUN([AM_PROG_NM], [AC_PROG_NM])

# This is just to silence aclocal about the macro not being used
ifelse([AC_DISABLE_FAST_INSTALL])

AC_DEFUN([LT_AC_PROG_GCJ],
[AC_CHECK_TOOL(GCJ, gcj, no)
test "x$[GCJFLAGS+set]" = xset || GCJFLAGS="-g -O2"
AC_SUBST(GCJFLAGS)
])

AC_DEFUN([LT_AC_PROG_RC],
# Cheap backport of AS_EXECUTABLE_P and required macros
# from Autoconf 2.59; we should not use $as_executable_p directly.

# _AS_TEST_PREPARE
# ---------------
m4_ifndef([_AS_TEST_PREPARE],
[m4_defun([_AS_TEST_PREPARE],
[if test -x / >/dev/null 2>&1; then
  as_executable_p='test -x'
else
  as_executable_p='test -f'
fi
])])# _AS_TEST_PREPARE

# AS_EXECUTABLE_P
# ---------------
# Check whether a file is executable.
m4_ifndef([AS_EXECUTABLE_P],
[m4_defun([AS_EXECUTABLE_P],
[AS_REQUIRE([_AS_TEST_PREPARE])dnl
$as_executable_p $1[ ]dnl
])])# AS_EXECUTABLE_P

# NOTE: This macro has been submitted for inclusion into  
# GNU Autoconf as AC_PROG_SED. When it is available in  
# a released version of Autoconf we should remove this  
# macro and use it instead. 

# LT_AC_PROG_SED
# --------------
# Check for a fully-functional sed program, that truncates  
# as few characters as possible. Prefer GNU sed if found.
AC_DEFUN([LT_AC_PROG_SED],
[AC_MSG_CHECKING([for a sed that does not truncate output])
AC_CACHE_VAL(lt_cv_path_SED,
[# Loop through the user's path and test for sed and gsed.  
# Then use that list of sed's as ones to test for truncation.
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
  IFS=$as_save_IFS
test -z "$as_dir" && as_dir=.
  for lt_ac_prog in sed gsed; do
    if AS_EXECUTABLE_P(["$as_dir/$lt_ac_prog$ac_executable_extensions"]); then
lt_ac_sed_list="$lt_ac_sed_list $as_dir/$lt_ac_prog$ac_exec_ext"
fi
done
done
IFS=$as_save_IFS
lt_ac_max=0
lt_ac_count=0
# Add /usr/xpg4/bin/sed as it is typically found on Solaris
# along with /bin/sed that truncates output.
for lt_ac_sed in $lt_ac_sed_list /usr/xpg4/bin/sed; do
test ! -f $lt_ac_sed && continue
cat /dev/null > conftest.in
lt_ac_count=0
echo $ECHO_N "0123456789$ECHO_C" > conftest.in
# Check for GNU sed and select it if it is found.
if "$lt_ac_sed" --version 2>&1 < /dev/null | grep 'GNU' > /dev/null; then
  lt_cv_path_SED=$lt_ac_sed
  break
fi
while true; do
cat conftest.in conftest.in > conftest.tmp
mv conftest.tmp conftest.in
cp conftest.in conftest.nl
echo >> conftest.nl
$lt_ac_sed -e 's/a$//' < conftest.nl > conftest.out || break
cmp -s conftest.out conftest.nl || break
# 10000 chars as input seems more than enough
test $lt_ac_count -gt 10 && break
lt_ac_count='expr $lt_ac_count + 1'
if test $lt_ac_count -gt $lt_ac_max; then
  lt_ac_max=$lt_ac_count
  lt_cv_path_SED=$lt_ac_sed
fi
done
done
)
SED=$lt_cv_path_SED
AC_SUBST([SED])
AC_MSG_RESULT([SSED])
)

#
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# AM_AUTOMAKE_VERSION(VERSION)
# ----------------------------
# Automake X.Y traces this macro to ensure aclocal.m4 has been
# generated from the m4 files accompanying Automake X.Y.
# (This private macro should not be called outside this file.)
AC_DEFUN([AM_AUTOMAKE_VERSION],
    [am__api_version='1.10'
     dnl Some users find AM_AUTOMAKE_VERSION and mistake it for a way to
dnl require some minimum version. Point them to the right macro.
m4_if([$1], [1.10.1], [],
    [AC_FATAL([Do not call $0, use AM_INIT_AUTOMAKE([$1]).])]])
]
)

# _AM_AUTOCONF_VERSION(VERSION)
# -----------------------------
# aclocal traces this macro to find the Autoconf version.
# This is a private macro too. Using m4_define simplifies
# the logic in aclocal, which can simply ignore this definition.
m4_define([_AM_AUTOCONF_VERSION], [])

# AM_SET_CURRENT_AUTOMAKE_VERSION
# -------------------------------
# Call AM_AUTOMAKE_VERSION and AM_AUTOMAKE_VERSION so they can be traced.
# This function is AC_REQUIREd by AC_INIT_AUTOMAKE.
AC_DEFUN([AM_SET_CURRENT_AUTOMAKE_VERSION],
    [AM_AUTOMAKE_VERSION([1.10.1])
     m4_ifndef([AC_AUTOCONF_VERSION], [m4_copy([m4_PACKAGE_VERSION], [AC_AUTOCONF_VERSION])]])
    _AM_AUTOCONF_VERSION(AC_AUTOCONF_VERSION)]
)

# AM_AUX_DIR_EXPAND

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# For projects using AC_CONFIG_AUX_DIR([foo]), Autoconf sets
# $ac_aux_dir to '$sdir/foo'. In other projects, it is set to
# '$sdir', '$sdir/..', or '$sdir/../..'.
#
# Of course, Automake must honor this variable whenever it calls a
# tool from the auxiliary directory. The problem is that $sdir (and
# therefore $ac_aux_dir as well) can be either absolute or relative,
# depending on how configure is run. This is pretty annoying, since
# it makes $ac_aux_dir quite unusable in subdirectories: in the top
# source directory, any form will work fine, but in subdirectories a
# relative path needs to be adjusted first.
#
# $ac_aux_dir/missing
# fails when called from a subdirectory if $ac_aux_dir is relative
# $top_srcdir/$ac_aux_dir/missing
# fails if $ac_aux_dir is absolute,
# fails when called from a subdirectory in a VPATH build with
# a relative $ac_aux_dir
#
# The reason of the latter failure is that $top_srcdir and $ac_aux_dir
# are both prefixed by $srcdir. In an in-source build this is usually
# harmless because $srcdir is '.', but things will broke when you
# start a VPATH build or use an absolute $srcdir.
#
# So we could use something similar to $top_srcdir/$ac_aux_dir/missing,
# iff we strip the leading $srcdir from $ac_aux_dir. That would be:
# am_aux_dir='$(top_srcdir)/\`expr \"$ac_aux_dir\" : \"$srcdir/\*\(.*\)\"\''
# and then we would define $MISSING as
# MISSING="\$\{SHELL\} am_aux_dir/missing"
# This will work as long as MISSING is not called from configure, because
# unfortunately $(top_srcdir) has no meaning in configure.
# However there are other variables, like CC, which are often used in
# configure, and could therefore not use this "fixed" $ac_aux_dir.
#
# Another solution, used here, is to always expand $ac_aux_dir to an
# absolute PATH. The drawback is that using absolute paths prevent a
# configured tree to be moved without reconfiguration.

AC_DEFUN([AM_AUX_DIR_EXPAND],
[dnl Rely on autoconf to set up CDPATH properly.
AC_PREREQ([2.50])dnl
# expand $ac_aux_dir to an absolute path
am_aux_dir='cd $ac_aux_dir && pwd'
)

# AM_CONDITIONAL                                           -*- Autoconf -*-
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#
# serial 8

# AM_CONDITIONAL(NAME, SHELL-CONDITION)
# -------------------------------------
# Define a conditional.
AC_DEFUN([AM_CONDITIONAL],
[AC_PREREQ(2.52)dnl
ifelse([$1], [TRUE], [AC_FATAL([$0: invalid condition: $1])],
[$1], [FALSE], [AC_FATAL([$0: invalid condition: $1])])dnl
AC_SUBST([$1_TRUE])dnl
AC_SUBST([$1_FALSE])dnl
_AM_SUBST_NOTMAKE([$1_TRUE])dnl
_AM_SUBST_NOTMAKE([$1_FALSE])dnl
if $2; then
$1_TRUE=
$1_FALSE=''
else
$1_TRUE=''
$1_FALSE=
fi
AC_CONFIG_COMMANDS_PRE(
[if test -z "${$1_TRUE}" && test -z "${$1_FALSE}"; then
AC_MSG_ERROR([[[conditional "$1" was never defined.
Usually this means the macro was only invoked conditionally.]]] fi)])

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#
# There are a few dirty hacks below to avoid letting 'AC_PROG_CC' be
# written in clear, in which case automake, when reading aclocal.m4,
# will think it sees a *use*, and therefore will trigger all it's
# C support machinery.  Also note that it means that autoscan, seeing
# CC etc. in the Makefile, will ask for an AC_PROG_CC use...

# _AM_DEPENDENCIES(NAME)
# ----------------------
# See how the compiler implements dependency checking.
# NAME is "CC", "CXX", "GCJ", or "OBJC".
# We try a few techniques and use that to set a single cache variable.
#
# We don't AC_REQUIRE the corresponding AC_PROG_CC since the latter was
# modified to invoke _AM_DEPENDENCIES(CC); we would have a circular
# dependency, and given that the user is not expected to run this macro,
# just rely on AC_PROG_CC.
AC_DEFUN([_AM_DEPENDENCIES],
[AC_REQUIRE([AM_SET_DEPDIR])]
AC_REQUIRE([AM_OUTPUT_DEPENDENCY_COMMANDS])
AC_REQUIRE([AM_MAKE_INCLUDE])
AC_REQUIRE([AM_DEP_TRACK])

ifelse($1), CC, [depcc="$CC" am_compiler_list=],
[$1], CCXX, [depcc="SCXX" am_compiler_list=],
[$1], OBJC, [depcc="SOBJC" am_compiler_list="gcc3 gcc"],
[$1], UPC, [depcc="$UPC" am_compiler_list=],
[$1], GCJ, [depcc="$GCJ" am_compiler_list="gcc3 gcc"],
[depcc="$$1" am_compiler_list=])

AC_CACHE_CHECK([dependency style of $depcc],
[am_cv_$1_dependencies.compiler_type],
[if test -z "$AMDEP_TRUE" && test -f "$am_depcomp"; then
# We make a subdir and do the tests there. Otherwise we can end up
# making bogus files that we don't know about and never remove. For
# instance it was reported that on HP-UX the gcc test will end up
# making a dummy file named 'D' -- because '-MD' means 'put the output
# in D'.
mkdir conf-test.dir
# Copy depcomp to subdir because otherwise we won't find it if we're
# using a relative directory.
cp "$am_depcomp" conf-test.dir
cd conf-test.dir
# We will build objects and dependencies in a subdirectory because
# it helps to detect inapplicable dependency modes. For instance
# both Tru64's cc and ICC support -MD to output dependencies as a
# side effect of compilation, but ICC will put the dependencies in
# the current directory while Tru64 will put them in the object
# directory.
mkdir sub

am_cv_$1_dependencies.compiler_type=none
if test "$am_compiler_list" = ""; then
    am_compiler_list= "sed -n ['s/#*/([a-zA-Z0-9]*$)/$1/p'] < ./depcomp"
fi
for depmode in $am_compiler_list; do
    # Setup a source with many dependencies, because some compilers
    # like to wrap large dependency lists on column 80 (with \), and
    # we should not choose a depcomp mode which is confused by this.
    #
    # We need to recreate these files for each test, as the compiler may
    # overwrite some of them when testing with obscure command lines.
    # This happens at least with the AIX C compiler.
    : > sub/conf-test.c
    for i in 1 2 3 4 5 6; do

echo '#include "confst$i.h"' >> sub/conftest.c
# Using ': > sub/confst$i.h' creates only sub/confst1.h with
# Solaris 8's {/usr,}/bin/sh.
touch sub/confst$i.h
done
echo "${am__include} ${am__quote}sub/conftest.Po${am__quote}" > confmf

case $depmode in	nosideeffect)
  # after this tag, mechanisms are not by side-effect, so they'll
  # only be used when explicitly requested
  if test "x$enable_dependency_tracking" = xyes; then
    continue
  else
    break
  fi
  ;;
none) break ;;
esac
# We check with '-c' and '-o' for the sake of the "dashmdout"
# mode. It turns out that the SunPro C++ compiler does not properly
# handle '-M -o', and we need to detect this.
if depmode=$depmode \
  source=sub/confst.c object=sub/confst.$(OBJEXT-o) \
  depfile=sub/confst.Po tmpdepfile=sub/confst.TPo \
  $SHELL ./depcomp $depcc -c -o sub/confst.$(OBJEXT-o) sub/confst.c \
  >/dev/null 2>&confst.err &&
  grep sub/confst1.h sub/confst.Po > /dev/null 2>&1 &&
  grep sub/confst6.h sub/confst.Po > /dev/null 2>&1 &&
  grep sub/confst.$(OBJEXT-o) sub/confst.Po > /dev/null 2>&1 &&
  $(MAKE-make) -s -f confmf > /dev/null 2>&1; then
  # icc doesn't choke on unknown options, it will just issue warnings
  # or remarks (even with -Werror). So we grep stderr for any message
  # that says an option was ignored or not supported.
  # When given -MP, icc 7.0 and 7.1 complain thusly:
  #  icc: Command line warning: ignoring option '-M'; no argument required
  # The diagnosis changed in icc 8.0:
  #  icc: Command line remark: option '-MP' not supported
  if (grep 'ignoring option' confst.err ||
      grep 'not supported' confst.err) >/dev/null 2>&1; then ;; else
    am_cv_$1_dependencies_compiler_type=$depmode
    break
    fi
    fi
done

cd ..
rm -rf confst.dir
else
  am_cv_$_1_dependencies_compiler_type=none
fi
)
)
AC_SUBST([$1DEPMODE], [depmode=am_cv_$_1_dependencies_compiler_type])
AM_CONDITIONAL([am__fastdep$1], [
  test "x$enable_dependency_tracking" != xno \\
  && test "$am_cv_$_1_dependencies_compiler_type" = gcc3])
)"
)

# AM_SET_DEPDIR
# -----------
# Choose a directory name for dependency files.
# This macro is AC_REQUIREd in _AM_DEPENDENCIES
AC_DEFUN([AM_SET_DEPDIR],
[AC_REQUIRE([AM_SET_LEADING_DOT])dnl
AC_SUBST([DEPDIR], ["${am__leading_dot}deps"]dnl
])

# AM_DEP_TRACK
# -----------
AC_DEFUN([AM_DEP_TRACK],
[AC_ARG_ENABLE(dependency-tracking,
[  --disable-dependency-tracking  speeds up one-time build
--enable-dependency-tracking  do not reject slow dependency extractors)])

if test "x$enable_dependency_tracking" != xno; then
  am_depcmp="$ac_aux_dir/depcomp"
  AMDEPBACKSLASH='\'
fi
AM_CONDITIONAL([AMDEP], [test "x$enable_dependency_tracking" != xno])
AC_SUBST([AMDEP], ["AMDEPBACKSLASH=\"]dnl
_AM_SUBST_NOTMAKE([AMDEPBACKSLASH])dnl
])

# Generate code to set up dependency tracking.     -*- Autoconf -*-

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#serial 3

# _AM_OUTPUT_DEPENDENCY_COMMANDS
AC_DEFUN([_AM_OUTPUT_DEPENDENCY_COMMANDS],
[for mf in $CONFIG_FILES; do
  # Strip MF so we end up with the name of the file.
  mf='echo "$mf" | sed -e 's/.*$//''
  # Check whether this is an Automake generated Makefile or not.
  # We used to match only the files named 'Makefile.in', but
  # some people rename them; so instead we look at the file content.
  # Grep'ing the first line is not enough: some people post-process
  # each Makefile.in and add a new line on top of each file to say so.
  # Grep'ing the whole file is not good either: AIX grep has a line
  # limit of 2048, but all sed's we know have understand at least 4000.
  if sed -n 's,^#.*generated by automake.*X,p', "$mf" | grep X >/dev/null 2>&1; then
    dirpart='AS_DIRNAME("$mf")'
  else
    continue
  fi
  # Extract the definition of DEPDIR, am__include, and am__quote
  # from the Makefile without running 'make'.
  DEPDIR='sed -n -s/'DEPDIR = /p' < "$mf"
  test -z "$DEPDIR" && continue
  am__include='sed -n -s/'am__include = /p' < "$mf"
  test -z "am__include" && continue
  am__quote='sed -n -s/'am__quote = /p' < "$mf"
  # When using ansi2knr, U may be empty or an underscore; expand it
  U='sed -n -s/'U = /p' < "$mf"
  # Find all dependency output files, they are included files with
  # $DEPDIR in their names. We invoke sed twice because it is the
  # simplest approach to changing $DEPDIR to its actual value in the
  # expansion.
  for file in 'sed -n "
  s/'$am__include $am__quote(.*(DEPDIR).*)$am__quote"$\|/p' < "$mf" | \ sed -e 's/$\|($DEPDIR)/"$DEPDIR"/g' -e 's/$U//g'; do
    # Make sure the directory exists.
    test -f "$dirpart/$file" && continue
    fdir='AS_DIRNAME([$file])'
    AS_MKDIR_P([$dirpart/$fdir])
    # echo "creating $dirpart/$file"
    echo '# dummy' > "$dirpart/$file"
  done
done
])# _AM_OUTPUT_DEPENDENCY_COMMANDS

# AM_OUTPUT_DEPENDENCY_COMMANDS
# -----------------------------
# This macro should only be invoked once -- use via AC_REQUIRE.
#
# This code is only required when automatic dependency tracking
# is enabled. FIXME. This creates each '.P' file that we will
# need in order to bootstrap the dependency handling code.
AC_DEFUN([AM_OUTPUT_DEPENDENCY_COMMANDS],
[AC_CONFIG_COMMANDS([depfiles],
    [test x"$AMDEP_TRUE" != x"" || _AM_OUTPUT_DEPENDENCY_COMMANDS],
    [AMDEP_TRUE="$AMDEP_TRUE" ac_aux_dir="$ac_aux_dir"]))

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# serial 8

# AM_CONFIG_HEADER is obsolete. It has been replaced by AC_CONFIG_HEADERS.
AU_DEFUN([AM_CONFIG_HEADER], [AC_CONFIG_HEADERS($@)])

# Do all the work for Automake. -*- Autoconf -*-

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# serial 13

# This macro actually does too much. Some checks are only needed if
# your package does certain things. But this isn't really a big deal.

# AM_INIT_AUTOMAKE(PACKAGE, VERSION, [NO-DEFINE])
# AM_INIT_AUTOMAKE([OPTIONS])
# -----------------------------------------------
# The call with PACKAGE and VERSION arguments is the old style
# call (pre autoconf-2.50), which is being phased out. PACKAGE
# and VERSION should now be passed to AC_INIT and removed from
# the call to AM_INIT_AUTOMAKE.
# We support both call styles for the transition. After
# the next Automake release, Autoconf can make the AC_INIT
# arguments mandatory, and then we can depend on a new Autoconf
# release and drop the old call support.
AC_DEFUN([AM_INIT_AUTOMAKE],
[AC_PREREQ([2.60])dl])
Autoconf wants to disallow AM_ names. We explicitly allow
the ones we care about.

m4_pattern_allow(["^AM_[A-Z]+FLAGS$])
AC_REQUIRE([AM_SET_CURRENT_AUTOMAKE_VERSION])
AC_REQUIRE([AC_PROG_INSTALL])
if test "cd $srcdir && pwd" != "pwd"; then
  # Use -I$(srcdir) only when $(srcdir) != ., so that make's output
  # is not polluted with repeated "-I."
  AC_SUBST([am__isrc], [' -I$(srcdir)'])
  AM_SUBST_NOTMAKE([am__isrc])
# test to see if srcdir already configured
if test -f $srcdir/config.status; then
  AC_MSG_ERROR([source directory already configured; run "make distclean" there first])
fi
fi

# test whether we have cygpath
if test -z "$CYGPATH_W"; then
  if (cygpath --version) >/dev/null 2>/dev/null; then
    CYGPATH_W='cygpath -w'
  else
    CYGPATH_W=echo
  fi
else
  CYGPATH_W=echo
fi
AC_SUBST([CYGPATH_W])

# Define the identity of the package.
dnl Distinguish between old-style and new-style calls.
m4_ifval([$2],
  [m4_ifval([$3], [AM_SET_OPTION([no-define])])]
  AC_SUBST([PACKAGE], [$1])
  AC_SUBST([VERSION], [$2]),
  [AM_SET_OPTIONS([$1])]
)

_diagnosis([AC_INIT with new-style AM_AUTOMAKE_INIT].
m4_if(m4_ifdef([AC_PACKAGE_NAME], 1)m4_ifdef([AC_PACKAGE_VERSION], 1), 11,
  [m4_fatal([AC_INIT should be called with package and version arguments])])

AC_SUBST([PACKAGE], ["AC_PACKAGE_TARNAME"])
AC_SUBST([VERSION], ['AC_PACKAGE_VERSION'])

_AM_IF_OPTION([no-define],
  [AC_DEFINE_UNQUOTED(PACKAGE, "$PACKAGE", [Name of package])
  AC_DEFINE_UNQUOTED(VERSION, "$VERSION", [Version number of package])])

# Some tools Automake needs.
AC_REQUIRE([AM_SANITY_CHECK])
AC_REQUIRE([AC_ARG_PROGRAM])
AM_MISSING_PROG(ACLOCAL, aclocal-$[am__api_version])
AM_MISSING_PROG(AUTOCONF, autoconf)
AM_MISSING_PROG(AUTOMAKE, automake-$[am__api_version])
AM_MISSING_PROG(AUTOHEADER, autoheader)
AM_MISSING_PROG(MAKEINFO, makeinfo)
AM_PROG_INSTALL_SH
AM_PROG_INSTALL_STRIP
AC_REQUIRE([AM_PROG_MKDIR_P])

# We need awk for the "check" target. The system "awk" is bad on
# some platforms.
AC_REQUIRE([AC_PROG_AWK])
AC_REQUIRE([AC_PROG_MAKE_SET])
AC_REQUIRE([AM_SET_LEADING_DOT])

_AM_IF_OPTION([tar-ustar], [_AM_PROG_TAR([ustar])],
    [_AM_IF_OPTION([tar-pax], [_AM_PROG_TAR([pax])],
        _AM_PROG_TAR([v7]))])
_AM_IF_OPTION([no-dependencies],
[AC_PROVIDE_IFELSE([AC_PROG_CC],
    [_AM_DEPENDENCIES(CC)],
    define([AC_PROG_CC],
        defn([AC_PROG_CC])[_AM_DEPENDENCIES(CC)]))
[AC_PROVIDE_IFELSE([AC_PROG_CXX],
    [_AM_DEPENDENCIES(CXX)],
    define([AC_PROG_CXX],
        defn([AC_PROG_CXX])[_AM_DEPENDENCIES(CXX)]))
[AC_PROVIDE_IFELSE([AC_PROG_OBJC],
    [_AM_DEPENDENCIES(OBJC)],
    define([AC_PROG_OBJC],
        defn([AC_PROG_OBJC])[_AM_DEPENDENCIES(OBJC)]))
]
)
]

# When config.status generates a header, we must update the stamp-h file.
# This file resides in the same directory as the config header
# that is generated. The stamp files are numbered to have different names.

# Autoconf calls _AC_AM_CONFIG_HEADER_HOOK (when defined) in the
# loop where config.status creates the headers, so we can generate
# our stamp files there.
AC_DEFUN([_AC_AM_CONFIG_HEADER_HOOK],
[# Compute $1's index in $config_headers.
_am_arg=$1
_am_stamp_count=1
for _am_header in $config_headers :; do
    case $_am_header in
    $_am_arg | $_am_arg:* )
        break ;;
    * )
        _am_stamp_count='expr $_am_stamp_count + 1' ;;
esac

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done
echo "timestamp for $_am_arg" >`AS_DIRNAME(\"$_am_arg\")/stamp-h[\$am_stamp_count]`

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# AM_PROG_INSTALL_SH
# ------------------
# Define $install_sh.
AC_DEFUN([AM_PROG_INSTALL_SH],
[AC_REQUIRE([AM_AUX_DIR_EXPAND])dnl
install_sh=${install_sh-"$(SHELL) $am_aux_dir/install-sh"}
AC_SUBST(install_sh)])

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# serial 2

# Check whether the underlying file-system supports filenames
# with a leading dot. For instance MS-DOS doesn't.
AC_DEFUN([AM_SET_LEADING_DOT],
[rm -rf .tst 2>/dev/null
mkdir .tst 2>/dev/null
if test -d .tst; then
  am__leading_dot=.
else
  am__leading_dot=_
fi
rmdir .tst 2>/dev/null
AC_SUBST([am__leading_dot])])

# Check to see how 'make' treats includes. -#- Autoconf -#-
# AM_MAKE_INCLUDE()
# -----------------
# Check to see how make treats includes.
AC_DEFUN([AM_MAKE_INCLUDE],
[am_make=${MAKE-make}
cat > confinc << 'END'
am__doit:
@echo done
.PHONY: am__doit
END
# If we don't find an include directive, just comment out the code.
AC_MSG_CHECKING([for style of include used by $am_make])
am__include="#"
am__quote=
_am_result=none
# First try GNU make style include.
echo "include confinc" > confmf
# We grep out 'Entering directory' and 'Leaving directory'
# messages which can occur if 'w' ends up in MAKEFLAGS.
# In particular we don't look at '^make:' because GNU make might
# be invoked under some other name (usually "gmake"), in which
# case it prints its new name instead of 'make'.
if test ""$am_make -s -f confmf 2> /dev/null | grep -v 'ing directory''' = "done"; then
    am__include=include
    am__quote=
    _am_result=GNU
fi
# Now try BSD make style include.
if test "$am__include" = "#"; then
echo '.include "confinc"' > confmf
if test ""$am_make -s -f confmf 2> /dev/null" = "done"; then
    am__include=.include
    am__quote="\"
    _am_result=BSD
fi
fi
AC_SUBST([am__include])
AC_SUBST([am__quote])
AC_MSG_RESULT([$_am_result])
rm -f confinc confmf
)

# Fake the existence of programs that GNU maintainers use.  -*- Autoconf -*-

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# serial 5

# AM_MISSING_PROG(NAME, PROGRAM)
# ------------------------------
AC_DEFUN([AM_MISSING_PROG],
[AC_REQUIRE([AM_MISSING_HAS_RUN])]
$1=${$1-"${am_missing_run}$2"}
AC_SUBST($1))

# AM_MISSING_HAS_RUN
# ------------------
# Define MISSING if not defined so far and test if it supports --run.
# If it does, set am_missing_run to use it, otherwise, to nothing.
AC_DEFUN([AM_MISSING_HAS_RUN],
[AC_REQUIRE([AM_AUX_DIR_EXPAND])]
AC_REQUIRE_AUX_FILE([missing])
test x"${MISSING+set}" = xset || MISSING="${SHELL} $am_aux_dir/missing"
# Use eval to expand $SHELL
if eval "$MISSING --run true"; then
  am_missing_run="SMISSING --run"
else
  am_missing_run=
AC_MSG_WARN([missing' script is too old or missing])
fi
)

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# AM_PROG_MKDIR_P
# ------------------
# Check for 'mkdir -p'.
AC_DEFUN([AM_PROG_MKDIR_P],
[AC_PREREQ([2.60])]
AC_REQUIRE([AC_PROG_MKDIR_P])
dnl Automake 1.8 to 1.9.6 used to define mkdir_p. We now use MKDIR_P,
dnl while keeping a definition of mkdir_p for backward compatibility.
dnl @MKDIR_P@ is magic: AC_OUTPUT adjusts its value for each Makefile.
dnl However we cannot define mkdir_p as $(MKDIR_P) for the sake of
dnl Makefile.ins that do not define MKDIR_P, so we do our own
dnl adjustment using top_builddir (which is defined more often than
AC_SUBST([mkdir_p], ["$MKDIR_P"])
dnl case $mkdir_p in
  [[\/$]* | ?:[[\/]]*] ;;
  */* mkdir_p="$$(top_builddir)/$mkdir_p" ;;
esac
)

# Helper functions for option handling.

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#
serial 3

# __AM_MANGLE_OPTION(NAME)
# -----------------------
AC_DEFUN([__AM_MANGLE_OPTION],
  [[__AM_OPTION__m4_bpatsubst($1, [[^a-zA-Z0-9_]], [[]])]])

# __AM_SET_OPTION(NAME)
# ----------------------
# Set option NAME. Presently that only means defining a flag for this option.
AC_DEFUN([__AM_SET_OPTION],
  [m4_define(__AM_MANGLE_OPTION([$1]), 1)])

# __AM_SET_OPTIONS(OPTIONS)
# ---------------------------
# OPTIONS is a space-separated list of Automake options.
AC_DEFUN([__AM_SET_OPTIONS],
  [AC_FOREACH([__AM_Option], [$1], [__AM_SET_OPTION(__AM_Option)])])

# __AM_IF_OPTION(OPTION, IF-SET, [IF-NOT-SET])
# ---------------------------------------------
# Execute IF-SET if OPTION is set, IF-NOT-SET otherwise.
AC_DEFUN([__AM_IF_OPTION],
  [m4_ifset(__AM_MANGLE_OPTION([$1]), [$2], [$3])])

# Check to make sure that the build environment is sane.  

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AC_DEFUN([AM_SANITY_CHECK],
[AC_MSG_CHECKING([whether build environment is sane])
# Just in case
sleep 1
echo timestamp > conftest.file
# Do 'set' in a subshell so we don't clobber the current shell's
# arguments. Must try -L first in case configure is actually a
# symlink; some systems play weird games with the mod time of symlinks
# (eg FreeBSD returns the mod time of the symlink's containing
# directory).
if (set X 'ls -Lt $srcdir/configure conftest.file 2> /dev/null'
if test "[$*]" = "X"; then
  # -L didn't work.
  set X 'ls -t $srcdir/configure conftest.file'
fi
rm -f conftest.file
if test "[$*]" != "X $srcdir/configure conftest.file" \\
  && test "[$*]" != "X conftest.file $srcdir/configure"; then
  # If neither matched, then we have a broken ls. This can happen
  # if, for instance, CONFIG_SHELL is bash and it inherits a
  # broken ls alias from the environment. This has actually
  # happened. Such a system could not be considered "sane".
  AC_MSG_ERROR([ls -t appears to fail. Make sure there is not a broken
  alias in your environment])
fi

  test "[$2]" = conftest.file
)
then
  # Ok.
  :
else
  AC_MSG_ERROR([newly created file is older than distributed files!
  Check your system clock])
fi
AC_MSG_RESULT(yes])

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# AM_PROG_INSTALL_STRIP
# ---------------------
# One issue with vendor 'install' (even GNU) is that you can't
# specify the program used to strip binaries. This is especially
# annoying in cross-compiling environments, where the build's strip
# is unlikely to handle the host's binaries.
# Fortunately install-sh will honor a STRIPPROG variable, so we
# always use install-sh in 'make install-strip', and initialize
# STRIPPROG with the value of the STRIP variable (set by the user).
AC_DEFUN([AM_PROG_INSTALL_STRIP],
[AC_REQUIRE([AM_PROG_INSTALL_SH])dnl
# Installed binaries are usually stripped using 'strip' when the user
# run 'make install-strip'. However 'strip' might not be the right
# tool to use in cross-compilation environments, therefore Automake
# will honor the 'STRIP' environment variable to overrule this program.
# Don't test for $cross_compiling = yes, because it might be 'maybe'.
if test "$cross_compiling" != no; then
  AC_CHECK_TOOL([STRIP], [strip], :)        
fi
INSTALL_STRIP_PROGRAM="$(install_sh) -c -s"
AC_SUBST([INSTALL_STRIP_PROGRAM])
)

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# _AM_SUBST_NOTMAKE(VARIABLE)
# ---------------------------
# Prevent Automake from outputting VARIABLE = @VARIABLE@ in Makefile.in.
# This macro is traced by Automake.
AC_DEFUN([_AM_SUBST_NOTMAKE])

# Check how to create a tarball.        -*- Autoconf -*-

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# serial 2

# _AM_PROG_TAR(FORMAT)
# --------------------
# Check how to create a tarball in format FORMAT.
# FORMAT should be one of 'v7', 'ustar', or 'pax'.
#
# Substitute a variable $(am__tar) that is a command
# writing to stdout a FORMAT-tarball containing the directory
# $tardir.
# $tardir=directory && $(am__tar) > result.tar
#
# Substitute a variable $(am__untar) that extract such
# a tarball read from stdin.
# $(am__untar) < result.tar
AC_DEFUN([_AM_PROG_TAR],
[# Always define AMTAR for backward compatibility.
AM_MISSING_PROG([AMTAR], [tar])
m4_if([$1], [v7],
   [am__tar='$(AMTAR) chof - "$tardir"'; am__untar='$(AMTAR) xf -'],
   [m4_case([$1], [ustar],,[pax],
      [m4_fatal([Unknown tar format])])
AC_MSG_CHECKING([how to create a $1 tar archive])
# Loop over all known methods to create a tar archive until one works.
_am_tools='gnutar m4_if([$1], [ustar], [plaintar]) pax cpio none'
_am_tools=${am_cv_prog_tar_$1-$_am_tools}
# Do not fold the above two line into one, because Tru64 sh and
# Solaris sh will not grok spaces in the rhs of '-'.
for _am_tool in $_am_tools
do
   case $_am_tool in
   gnutar)
      for _am_tar in tar gnutar gtar;
      do
         AM_RUN_LOG([$_am_tar --version]) && break
done
      _am_tar="$_am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf - "$tardir"
      _am__tar="$_am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf - "$tardir"
      _am__untar="$_am_tar -xf -""
      ;;
   plaintar)
      # Must skip GNU tar: if it does not support --format= it doesn't create
      # ustar tarball either.
      (tar --version) >/dev/null 2>&1 && 1 && continue
      _am__tar="tar chf - "$tardir"
      _am__tar="/tar chf - "$tardir"
      _am__untar="/tar xf -"
      ;;
   pax)
      _am__tar=pax -L -x $1 -w "$tardir"
      _am__tar="pax -L -x $1 -w "$tardir"
      _am__untar="pax -L -x $1 -w "$tardir"
   esac
   break
(( ! _am__tar ))
for _am_tool in $_am_tools
   case _am_tool in
   gnutar)
      for _am_tar in tar gnutar gtar;
      do
         AM_RUN_LOG([$_am_tar --version]) && break
done
      _am__tar="$_am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf - "$tardir"
      _am__tar="$_am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf - "$tardir"
      _am__untar="$_am_tar -xf -""
      ;;
   plaintar)
      # Must skip GNU tar: if it does not support --format= it doesn't create
      # ustar tarball either.
      (tar --version) >/dev/null 2>&1 && 1 && continue
      _am__tar="tar chf - "$tardir"
      _am__tar="/tar chf - "$tardir"
      _am__untar="/tar xf -"
      ;;
   pax)
      _am__tar="pax -L -x $1 -w "$tardir"
      _am__tar="pax -L -x $1 -w "$tardir"
      _am__untar="pax -L -x $1 -w "$tardir"
   esac
   break
(( ! _am__tar ))
for _am_tool in $_am_tools
   case _am_tool in
   gnutar)
      for _am_tar in tar gnutar gtar;
      do
         AM_RUN_LOG([$_am_tar --version]) && break
done
      _am__tar="$_am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf - "$tardir"
      _am__tar="$_am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf - "$tardir"
      _am__untar="$_am_tar -xf -""
      ;;
   plaintar)
      # Must skip GNU tar: if it does not support --format= it doesn't create
      # ustar tarball either.
      (tar --version) >/dev/null 2>&1 && 1 && continue
      _am__tar="tar chf - "$tardir"
      _am__tar="/tar chf - "$tardir"
      _am__untar="/tar xf -"
      ;;
   pax)
      _am__tar="pax -L -x $1 -w "$tardir"
      _am__tar="pax -L -x $1 -w "$tardir"
      _am__untar="pax -L -x $1 -w "$tardir"
am__untar='pax -r'
::
cpio)
   am__tar='find "$tardir" -print | cpio -o -H $1 -L'
   am__tar_='find "$tardir" -print | cpio -o -H $1 -L'
   am__untar='cpio -i -H $1 -d'
::
none)
   am__tar=false
   am__tar_=false
   am__untar=false
::
esac

# If the value was cached, stop now.  We just wanted to have am__tar
# and am__untar set.
test -n "[${am_cv_prog_tar_$1}]" && break

# tar/untar a dummy directory, and stop if the command works
rm -rf conftest.dir
mkdir conftest.dir
echo GrepMe > conftest.dir/file
AM_RUN_LOG(([$tardir=conftest.dir && eval $am__tar_ >conftest.tar])
rm -rf conftest.dir
if test -s conftest.tar; then
   AM_RUN_LOG([$am__untar <conftest.tar])
grep GrepMe conftest.dir/file >/dev/null 2>&1 && break
fi
done
rm -rf conftest.dir

AC_CACHE_VAL([$am_cv_prog_tar_$1], [am_cv_prog_tar_$1=$_am_tool])
AC_MSG_RESULT([$am_cv_prog_tar_$1])
AC_SUBST([$am__tar])
AC_SUBST([$am__untar])
)} # _AM_PROG_TAR

1.857 slf4j 1.7.7

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Theodore Ts'o
23-June-2007

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### 1.876 activation 1.1

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## Independent JPEG Group: JPEG release 6b

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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## xwd v1.0.7

### xwd utility
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include/GL/glxext.h
include/GL/wglxext.h :

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```ruby
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1.893 wpa-supplicant 2.1-devel

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lang/usenglish/us_durz_cart.h
lang/usenglish/us_intAccent_cart.c
lang/usenglish/us_intAccent_cart.h
lang/usenglish/us_intTone_cart.c
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src/speech/g721.c
src/speech/g72x.c
src/speech/g723_24.c
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/* Ported for Festvox by Gopala Anumachipalli gopalakr@cs.cmu.edu Sep 2012 */
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1.897 jersey-client 2.12

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1.899 libjpeg 1.2.1-3.el6_5

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 * jcapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

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* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcapimin.c
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/*
 * rdgif.c
 *
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in GIF format.
*
*****************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,      *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                                         *
*****************************************************************************
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

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/*
 * jdapimin.c
 *
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* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
needed in either the normal full-decompression case or the
transcoding-only case.

Most of the routines intended to be called directly by an application
are in this file or in jdapistd.c. But also see jcomapi.c for routines
shared by compression and decompression, and jdtrans.c for the transcodin
case.

* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jdapimin.c
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* jidctflt.c

* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a floating-point implementation of the
inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
must also perform dequantization of the input coefficients.

* This implementation should be more accurate than either of the integer
IDCT implementations. However, it may not give the same results on all
machines because of differences in roundoff behavior. Speed will depend
on the hardware's floating point capacity.

* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
on each row (or vice versa, but it's more convenient to emit a row at
a time). Direct algorithms are also available, but they are much more
complex and seem not to be any faster when reduced to code.

* This implementation is based on Arai, Agui, and Nakajima's algorithm for
scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
Japanese, but the algorithm is described in the Pennebaker & Mitchell
JPEG textbook (see REFERENCES section in file README). The following code
is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
possible to arrange the computation so that many of the multiplies are
simple scalings of the final outputs. These multiplies can then be
folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

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* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jidctflt.c
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/*
* jversion.h
*
* Copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains software version identification.
*/

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/*
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

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/*
* jcoefft.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

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* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jccoefct.c

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/ *
* jmemdos.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file provides an MS-DOS-compatible implementation of the system-
* dependent portion of the JPEG memory manager. Temporary data can be
* stored in extended or expanded memory as well as in regular DOS files.
* If you use this file, you must be sure that NEED_FAR_POINTERS is defined
* if you compile in a small-data memory model; it should NOT be defined if
* you use a large-data memory model. This file is not recommended if you
* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
* Also, this code will NOT work if struct fields are aligned on greater than
* 2-byte boundaries.
*
* Based on code contributed by Ge' Weijers.
*/

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* jcmarker.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
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* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write JPEG datastream markers.
*/

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* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jcmarker.c
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/*
* jdsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains upsampling routines.
*
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
*
* An excellent reference for image resampling is
*/

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/*
* cdjpeg.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains common declarations for the sample applications
* cjpeg and djpeg. It is NOT used by the core JPEG library.
*/

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* rdtarga.c
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*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

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* jidctfst.c
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*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.

*/

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* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jidctfst.c

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 * jinclude.h
 *
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file exists to provide a single place to fix any problems with
 * including the wrong system include files. (Common problems are taken
 * care of by the standard jconf symbols, but on really weird systems
 * you may have to edit this file.)
 *
 * NOTE: this file is NOT intended to be included by applications using the
 * JPEG library. Most applications need only include jpeglib.h.
 *
 */

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 * rdrle.c
 *
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed RLE format).
 *

* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

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* jmemmgr.c
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* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the JPEG system-independent memory management
* routines. This code is usable across a wide variety of machines; most
* of the system dependencies have been isolated in a separate file.
* The major functions provided here are:
* * pool-based allocation and freeing of memory;
* * policy decisions about how to divide available memory among the
*   virtual arrays;
* * control logic for swapping virtual arrays between main memory and
*   backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

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/*
* jerror.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
  * stderr is the right thing to do. Many applications will want to replace
  * some or all of these routines.
  *
  * If you define USE_WINDOWS_MESSAGBOX in jconfig.h or in the makefile,
  * you get a Windows-specific hack to display error messages in a dialog box.
  * It ain't much, but it beats dropping error messages into the bit bucket,
  * which is what happens to output to stderr under most Windows C compilers.
  *
  * These routines are used by both the compression and decompression code.
  */

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  * jcinit.c
  *
  * Copyright (C) 1991-1997, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains initialization logic for the JPEG compressor.
  * This routine is in charge of selecting the modules to be executed and
  * making an initialization call to each one.
  *
  * Logically, this code belongs in jcmaster.c. It's split out because
  * linking this routine implies linking the entire compression library.
  * For a transcoding-only application, we want to be able to use jcmaster.c
  * without linking in the whole library.
  */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcinit.c
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/*
  * jpeglib.h
  *
  * Copyright (C) 1991-1998, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file defines the application interface for the JPEG library.
  * Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar.gz/jpeg-9c/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
 * jpegtran.c
 *
 * Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains a command-line user interface for JPEG transcoding.
 * It is very similar to cjpeg.c, and partly to djpeg.c, but provides
 * lossless transcoding between different JPEG file formats. It also
 * provides some lossless and sort-of-lossless transformations of JPEG data.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar.gz/jpeg-9c/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
 * jaricom.c
 *
 * Developed 1997-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 *
 * This data represents Table D.3 in the JPEG spec (D.2 in the draft),
 * ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar.gz/jpeg-9c/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/ *
 * wrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains routines to write output images in Targa format.
 * 
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 * 
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrtarga.c
No license file was found, but licenses were detected in source scan.

/ *
 * jccolor.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains input colorspace conversion routines.
 */
Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
 * whole decompression library into a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
 * allocated wide enough to correspond to the desired output width).
 * The caller (the prep controller) is responsible for vertical padding.
 *
 * The downsampler may request "context rows" by setting need_context_rows
 * during startup. In this case, the input arrays will contain at least
 * one row group's worth of pixels above and below the passed-in data;
the caller will create dummy rows at image top and bottom by replicating
the first or last real pixel row.

An excellent reference for image resampling is

The downsampling algorithm used here is a simple average of the source
pixels covered by the output pixel. The hi-falutin sampling literature
refers to this as a "box filter". In general the characteristics of a box
filter are not very good, but for the specific cases we normally use (1:1
and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
nearly so bad. If you intend to use other sampling ratios, you'd be well
advised to improve this code.

A simple input-smoothing capability is provided. This is mainly intended
for cleaning up color-dithered GIF input files (if you find it inadequate,
we suggest using an external filtering program such as pnmconvol). When
enabled, each input pixel P is replaced by a weighted sum of itself and its
eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
where SF = (smoothing_factor / 1024).
Currently, smoothing is only supported for 2h2v sampling factors.

Found in path(s):
/opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
 * wrgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in GIF format.
 *
**********************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.    *
* There is no trace of the LZW algorithm in this file.            *
**********************************************************************
 *
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/
/*
 * This code is loosely based on ppmto gif from the PBMPLUS distribution
 * of Feb. 1991. That file contains the following copyright notice:
 * Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
 * Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
 * Copyright (C) 1989 by Jef Poskanzer.
 * Permission to use, copy, modify, and distribute this software and its
 * documentation for any purpose and without fee is hereby granted, provided
 * that the above copyright notice appear in all copies and that both that
 * copyright notice and this permission notice appear in supporting
 * documentation. This software is provided "as is" without express or
 * implied warranty.
 * We are also required to state that
 * "The Graphics Interchange Format(c) is the Copyright property of
 * CompuServe Incorporated. GIF(sm) is a Service Mark property of
 * CompuServe Incorporated."
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
 * ckconfig.c
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/ckconfig.c
No license file was found, but licenses were detected in source scan.

/*
 * jcprepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 *
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jcprepct.c

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
 to establish a common coding style. The goal of using similar coding styles
 is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
 Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
 Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*
 *  Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
   then-part;
} else {
   else-part;
}

with two spaces per indentation level. (This indentation convention is
 handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
 are similar but upper case (MULTI_WORD_NAME). Names should be unique within
 the first fifteen characters. (On some older systems, global names must be
 unique within six characters. We accommodate this without cluttering the
 source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
 transformation to feed prototype-less C compilers. Transformation is done
 by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```c
LOCAL(int *)
function_name (int a, char *b)
{
    code...
}
```

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```c
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
```

which is used like this:

```c
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:
1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpege.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar.gz/jpeg-9c/coderules.txt

No license file was found, but licenses were detected in source scan.

/*
 * jquant2.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional
 * Floyd-Steinberg dithering.
 * It is also possible to use just the second pass to map to an arbitrary
 * externally-given color map.
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
* /

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jquant2.c
No license file was found, but licenses were detected in source scan.

/*
 * wrppm.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * /

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jddctmgr.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * /

* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
*
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c.tar.gz/jpeg-9c/jddctmgr.c
No license file was found, but licenses were detected in source scan.

*/

* rdjpgcom.c
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c.tar.gz/jpeg-9c/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

*/

* cdjpeg.c
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c.tar.gz/jpeg-9c/cdjpeg.c
No license file was found, but licenses were detected in source scan.

*/

* jdarith.c
* Developed 1997-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains portable arithmetic entropy decoding routines for JPEG
* Both sequential and progressive modes are supported in this single module.
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdarith.c

No license file was found, but licenses were detected in source scan.

/*
 * djpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * djpeg [options] inputfile outputfile
 * djpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * djpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/djpeg.c

No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read
if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that
are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage

------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application
selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
===================

Data formats
------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped.
because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.
1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn’t control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
```
fprintf(stderr, "can't open %s\n", filename);
exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

image_width	Width of image, in pixels
image_height	Height of image, in pixels
input_components	Number of color channels (samples per pixel)
in_color_space	Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.
Typical code for a 24-bit RGB source image is

cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently.
Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

```c
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.
If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target.

If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call
**jpeg_destroy_compress()** or **jpeg_destroy()** to release memory. This is legitimate at any point after calling **jpeg_create_compress()** --- in fact, it's safe even if **jpeg_create_compress()** fails.

* If you want to re-use the JPEG object, call **jpeg_abort_compress()**, or call **jpeg_abort()** which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. **jpeg_abort()** is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call **term_destination()**. (See "Compressed data handling", below, for more about that.)

**jpeg_destroy()** and **jpeg_abort()** are the only safe calls to make on a JPEG object that has reported an error by calling **error_exit** (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "**struct jpeg_decompress_struct**" and you call **jpeg_create_decompress()**. Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.
If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s
", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.
It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width, image width and height, as scaled output_height
out_color_components# of color components in out_color_space
output_components# of color components returned per pixel
colormapthe selected colormap, if any
actual_number_of_colorsnumber of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.
If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.
Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.
ADVANCED FEATURES

Compression parameter selection

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change
in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values (see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl, const unsigned int *basic_table, int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.

int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for
compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is
1/1, or no scaling. Currently, the supported scaling ratios are
M/N with all N from 1 to 16, where M is the destination DCT size,
which is 8 by default (see block_size parameter above).
(The library design allows for arbitrary scaling ratios but this
is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_colorsapce() if you want to change these.

**J_COLOR_TRANSFORM** color_transform
Internal color transform identifier, writes LSE marker if nonzero
(requires decoder with inverse color transform support, introduced with IJG JPEG 9).
Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN.
Set this value for lossless RGB application *before* calling jpeg_set_colorsapce(), because entropy table assignment in jpeg_set_colorsapce() depends on color_transform.

**boolean optimize_coding**
TRUE causes the compressor to compute optimal Huffman coding tables
for the image. This requires an extra pass over the data and
therefore costs a good deal of space and time. The default is
FALSE, which tells the compressor to use the supplied or default
Huffman tables. In most cases optimal tables save only a few percent
of file size compared to the default tables. Note that when this is
TRUE, you need not supply Huffman tables at all, and any you do
supply will be overwritten.

**unsigned int restart_interval**
**int restart_in_rows**
To emit restart markers in the JPEG file, set one of these nonzero.
Set restart_interval to specify the exact interval in MCU blocks.
Set restart_in_rows to specify the interval in MCU rows. (If
restart_in_rows is not 0, then restart_interval is set after the
image width in MCUs is computed.) Defaults are zero (no restarts).
One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG
files than in color files, and MUCH higher in progressive JPEGs.
If you use restarts, you may want to use larger intervals in those
cases.

**const jpeg_scan_info * scan_info**
**int num_scans**
By default, scan_info is NULL; this causes the compressor to write a
single-scan sequential JPEG file. If not NULL, scan_info points to
an array of scan definition records of length num_scans. The
compressor will then write a JPEG file having one scan for each scan
definition record. This is used to generate noninterleaved or
progressive JPEG files. The library checks that the scan array
defines a valid JPEG scan sequence. (jpeg_simple_progression creates
a suitable scan definition array for progressive JPEG.) This is
discussed further under "Progressive JPEG support".
boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling
of chroma components.
If FALSE, use only DCT size <= 8 and simple separate downsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles
it is preferable that this value matches the corresponding
do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space
(i.e., YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

```
int q_scale_factor[NUM_QUANT_TBLS]
Linear quantization scaling factors (percentage, initialized 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you
have to convert from user-defined ratings via jpeg_quality_scaling().
Here is an example code which corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);
/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);
jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: You must also set 1x1 subsampling for efficient separate
color quality selection, since the default value used by library
is 2x2:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

```
JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if
no table is defined for a slot. Slots 0 and 1 are filled with the
JPEG sample tables by jpeg_set_defaults(). If you need to allocate
more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image
by setting optimize_coding, as discussed above; there's seldom
any need to mess with providing your own Huffman tables.
```

The actual dimensions of the JPEG image that will be written to the file are
given by the following fields. These are computed from the input image
dimensions and the compression parameters by jpeg_start_compress(). You can
also call jpeg_calc_jpeg_dimensions() to obtain the values that will result
from the current parameter settings. This can be useful if you are trying
to pick a scaling ratio that will get close to a desired target size.

```
JDIMENSION jpeg_width
Actual dimensions of output image.
JDIMENSION jpeg_height
```
Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
----------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest)
processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Colorspace of image
boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent
to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field).
Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.
Additional decompression parameters that the application may set include:

**J_DCT_METHOD dct_method**
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

**JDIMENSION output_width**
Actual dimensions of output image.

**JDIMENSION output_height**
int out_color_components
Number of color components in out_color_space.
int output_components
Number of color components returned.
int rec_outbuf_height
Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays
are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

RGB => YCbCr
RGB => GRAYSCALE
RGB => BG_YCC
YCbCr => GRAYSCALE
YCbCr => BG_YCC
CMYK => YCCK
plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK,
YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers
that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the interchange standards.

jpeg_set_colorsparse() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorsparse(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space.

jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

YCbCr => RGB
YCbCr => GRAYSCALE
BG_YCC => RGB
BG_YCC => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=YCCK transform, because that would break other applications, notably Ghostscript.
Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write un inverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data.)
The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to
generate the error message has been stored in cinfo->err; call
output_message to display it. Control must NOT return to the caller;
generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit()
default behavior. Note that if you continue processing, you should
clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages
somewhere other than stderr. Note that this method does not know
how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info
stored in cinfo->err. This method is called by output_message. Few
applications should need to override this method. One possible
reason for doing so is to implement dynamic switching of error message
language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so,
calls output_message. The main reason for overriding this method
would be to abort on warnings. msg_level is -1 for warnings,
0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG
library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to
by the field err->jpeg_message_table. The messages are numbered from 0 to
err->last_jpeg_message, and it is these code numbers that are used in the
JPEG library code. You could replace the message texts (for instance, with
messages in French or German) by changing the message table pointer. See
jerror.h for the default texts. CAUTION: this table will almost certainly
change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are
handled by the same mechanism. The error handler supports a second "add-on"
message table for this purpose. To define an addon table, set the pointer
err->addon_message_table and the message numbers err->first_addon_message and
err->last_addon_message. If you number the addon messages beginning at 1000
or so, you won't have to worry about conflicts with the library's built-in
messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cerror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method.
The variants of each macro are for varying numbers of additional parameters.
The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
-----------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;  /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)  
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)  
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)  
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;        /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.
term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the decompressor to output
however much of the image is there. In pathological cases, the decompressor
may swallow the EOI and again demand data ... just keep feeding it fake EOI.s.
jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want
the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method
pointers, and insert a pointer to the struct into the "src" field of the JPEG
decompression object. This can be done in-line in your setup code if you
like, but it's probably cleaner to provide a separate routine similar to the
jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination
managers in jdatasrc.c and jdatadst.c.

I/O suspension
--------------

Some applications need to use the JPEG library as an incremental memory-to-
memory filter: when the compressed data buffer is filled or emptied, they want
control to return to the outer loop, rather than expecting that the buffer can
be emptied or reloaded within the data source/destination manager subroutine.
The library supports this need by providing an "I/O suspension" mode, which we
describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the
maximum amount of time spent in any one call to the library, so it will not
eliminate response-time problems in single-threaded applications. If you
need guaranteed response time, we suggest you "bite the bullet" and implement
a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application
and the data source or destination manager; you will always need a custom
source/destination manager. (Please read the previous section if you haven't
already.) The basic idea is that the empty_output_buffer() or
fill_input_buffer() routine is a no-op, merely returning FALSE to indicate
that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.

* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely
Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or
within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call,
so any skipped data can be permanently discarded. You still have to deal
with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is
called, move any unconsumed data (beyond the current pointer/count) down to
the beginning of this buffer and then load new data into the remaining buffer
space. This approach requires a little more data copying but is far easier
to get right.

Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of
increasing quality. In situations where a JPEG file is transmitted across a
slow communications link, a decoder can generate a low-quality image very
quickly from the first scan, then gradually improve the displayed quality as
more scans are received. The final image after all scans are complete is
identical to that of a regular (sequential) JPEG file of the same quality
setting. Progressive JPEG files are often slightly smaller than equivalent
sequential JPEG files, but the possibility of incremental display is the main
reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a
suitable "scan script" defining how to divide the data into scans.
Creation of progressive JPEG files is otherwise transparent to the encoder.
Progressive JPEG files can also be read transparently by the decoder library.
If the decoding application simply uses the library as defined above, it
will receive a final decoded image without any indication that the file was
progressive. Of course, this approach does not allow incremental display.
To perform incremental display, an application needs to use the decoder
library's "buffered-image" mode, in which it receives a decoded image
multiple times.

Each displayed scan requires about as much work to decode as a full JPEG
image of the same size, so the decoder must be fairly fast in relation to the
data transmission rate in order to make incremental display useful. However,

it is possible to skip displaying the image and simply add the incoming bits
to the decoder's coefficient buffer. This is fast because only Huffman
decoding need be done, not IDCT, upsampling, colorspace conversion, etc.
The IJG decoder library allows the application to switch dynamically between
displaying the image and simply absorbing the incoming bits. A properly
coded application can automatically adapt the number of display passes to
suit the time available as the image is received. Also, a final
higher-quality display cycle can be performed from the buffered data after
the end of the file is reached.

Progressive compression:
To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.)

When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode
---------------------

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output()/* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output()/* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

This differs from ordinary unbuffered decoding in that there is an additional
level of looping. The application can choose how many output passes to make
and how to display each pass.

The simplest approach to displaying progressive images is to do one display
pass for each scan appearing in the input file. In this case the outer loop
condition is typically
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input
file is to be displayed; the scans are numbered starting at 1 for this
purpose. (You can use a loop counter starting at 1 if you like, but using
the library's input scan counter is easier.) The library automatically reads
data as necessary to complete each requested scan, and jpeg_finish_output()
advances to the next scan or end-of-image marker (hence input_scan_number
will be incremented by the time control arrives back at jpeg_start_output()).
With this technique, data is read from the input file only as needed, and
input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the
buffered image remains available; it can be read additional times by
repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()_sequence. For example, a useful technique is to use fast one-pass color
quantization for display passes made while the image is arriving, followed by
a final display pass using two-pass quantization for highest quality. This
is done by changing the library parameters before the final output pass.
Changing parameters between passes is discussed in detail below.
In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input().

The return value is one of the following:

- JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
- JPEG_REACHED_EOI: reached the EOI marker (end of image)
- JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
- JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
- JPEG_SUSPENDED: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

- You can limit buildup of unprocessed data in your input buffer.
- You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or
The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
...
jpeg_finish_output()
} while (! final_pass);
rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it
as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend.

In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output(). This setting is relevant only when decoding a progressive JPEG image.
  During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a
matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.

2. Single-pass quantization to an application-supplied colormap.
   
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.

3. Two-pass quantization to a colormap chosen specifically for the image.
   
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.

   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

   These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

   IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.)

   You do this by setting one or more of these three cinfo fields to TRUE:

<table>
<thead>
<tr>
<th>Method Description</th>
<th>cinfo Field</th>
<th>Setting Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>enable_1pass_quant</td>
<td>Fixed color cube colormap</td>
<td>cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.</td>
</tr>
<tr>
<td>enable_external_quant</td>
<td>Externally-supplied colormap</td>
<td>cinfo.colormap = point to colormap; also set cinfo.actual_number_of_colors.</td>
</tr>
<tr>
<td>enable_2pass_quant</td>
<td>Two-pass custom colormap</td>
<td>cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.</td>
</tr>
</tbody>
</table>

   All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

   After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

   1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.

   2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

   NOTE: if you want to use the same colormap as was used in the prior pass,
you should not do either of these things. This will save some nontrivial
switchover costs.
(These requirements exist because cinfo.colormap will always be non-NULL
after completing a prior output pass, since both the 1-pass and 2-pass
quantizers set it to point to their output colormaps. Thus you have to
do one of these two things to notify the library that something has changed.
Yup, it's a bit klugy, but it's necessary to do it this way for backwards
compatibility.)

Note that in buffered-image mode, the library generates any requested colormap
during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the
buffered image to determine the optimum color map; it therefore may take a
significant amount of time, whereas ordinarily it does little work. The
progress monitor hook is called during this pass, if defined. It is also
important to realize that if the specified target scan number is greater than
or equal to the current input scan number, jpeg_start_output() will attempt
to consume input as it makes this pass. If you use a suspending data source,
you need to check for a FALSE return from jpeg_start_output() under these
conditions. The combination of 2-pass quantization and a not-yet-fully-read
target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it
for all JPEG images, even single-scan ones. This will work, but it is
inefficient: there is no need to create an image-sized coefficient buffer for
single-scan images. Requesting buffered-image mode for such an image wastes
memory. Worse, it can cost time on large images, since the buffered data has
to be swapped out or written to a temporary file. If you are concerned about
maximum performance on baseline JPEG files, you should use buffered-image
mode only when the incoming file actually has multiple scans. This can be
tested by calling jpeg_has_multiple-scans(), which will return a correct
result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input
processing get ahead of output processing, the resulting pattern of access to
the coefficient buffer is quite nonsequential. It's best to use the memory
manager jmemnobs.c if you can (i.e., if you have enough real or virtual main
memory). If not, at least make sure that max_memory_to_use is set as high as
possible. If the JPEG memory manager has to use a temporary file, you will
probably see a lot of disk traffic and poor performance. (This could be
improved with additional work on the memory manager, but we haven't gotten
around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all
input processing, including reading the initial markers; that is, you may
wish to call jpeg_consume_input() instead of jpeg_read_header() during
startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images

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A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.
The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and
the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr)&cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++)
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr)&cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++)
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
for (i = 0; i < 256; i++)
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get
You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(); it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
--------------
Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text: jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length
parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.
The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only
16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to
recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsamled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps.

The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression).

The mechanism described in this section is necessary only to supply or receive downsamled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsamled to the sampling factors specified in the JPEG parameters.

You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsamled row must contain a multiple of block_size valid samples, and there must be a multiple of block_size sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of
Before calling jpeg_start_compress(), you must do the following:
* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().)
  This notifies the library that you will be supplying raw data.
  Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use real downscaled data. (It is set TRUE by jpeg_set_defaults().)
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*block_size sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*block_size, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as
- cinfo->comp_info[i].width_in_blocks*block_size samples per row
- cinfo->comp_info[i].height_in_blocks*block_size rows in image
  after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than block_size samples. An example may help here.
  Assume 2h2v downsampling of YCbCr data, that is
  - cinfo->comp_info[0].h_samp_factor = 2 for Y
  - cinfo->comp_info[0].v_samp_factor = 2
  - cinfo->comp_info[1].h_samp_factor = 1 for Cb
  - cinfo->comp_info[1].v_samp_factor = 1
  - cinfo->comp_info[2].h_samp_factor = 1 for Cr
  - cinfo->comp_info[2].v_samp_factor = 1
  and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y,
downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing. You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real downsampled data (it is set TRUE by jpeg_read_header()). Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*block_size scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
----------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT
coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This framish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for
jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is
* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block
array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before
jpeg_write_coefficients() is called. A side-effect of
jpeg_write_coefficients() is to realize any virtual arrays that have been
requested from the compression object's memory manager. Thus, when obtaining
the virtual arrays from the compression object, you should fill the arrays
after calling jpeg_write_coefficients(). The data is actually written out
when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes
the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization
tables and sampling factors match the way the data was encoded, or the
resulting file will be invalid. For transcoding from an existing JPEG file,
we recommend using jpeg_copy_critical_parameters(). This routine initializes
all the compression parameters to default values (like jpeg_set_defaults()),
then copies the critical information from a source decompression object.
The decompression object should have just been used to read the entire
JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object
as needing to be written to the output file (thus, it acts like
jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid
emitting abbreviated JPEG files by accident. If you really want to emit an
abbreviated JPEG file, call jpeg Suppress_tables(), or set the tables’
individual sent_table flags, between calling jpeg_write_coefficients() and
jpeg_finish_compress().

Progress monitoring
---------------------

Some applications may need to regain control from the JPEG library every so
often. The typical use of this feature is to produce a percent-done bar or
other progress display. (For a simple example, see cjpeg.c or djpeg.c.)
Although you do get control back frequently during the data-transferring pass
(the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes
will occur inside jpeg_finish_compress or jpeg_start_decompress; those
routines may take a long time to execute, and you don't get control back
until they are done.
You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
- long pass_counter;/* work units completed in this pass */
- long pass_limit;/* total number of work units in this pass */
- int completed_passes;/* passes completed so far */
- int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)

--------------------------------------------
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output
pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management
-------------------

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```c
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use
after creating the JPEG object. (Of course, there is still a minimum size for
the buffers, so the max-memory setting is effective only if it is bigger than
the minimum space needed.) If you allocate any large structures yourself, you
must allocate them before jpeg_start_compress() or jpeg_start_decompress() in
order to have them counted against the max memory limit. Also keep in mind
that space allocated with alloc_small() is ignored, on the assumption that
it's too small to be worth worrying about; so a reasonable safety margin
should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is
important to clean up the JPEG object properly to ensure that the temporary
files get deleted. (This is especially crucial with jmemdos.c, where the
"temporary files" may be extended-memory segments; if they are not freed,
DOS will require a reboot to recover the memory.) Thus, with these memory
managers, it's a good idea to provide a signal handler that will trap any
early exit from your program. The handler should call either jpeg_abort()
or jpeg_destroy() for any active JPEG objects. A handler is not needed with
jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either,
since the C library is supposed to take care of deleting files made with
tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression
depend on image dimensions, image characteristics (such as colorspace and
JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending
   on operating mode and image characteristics (particularly color vs.
grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and
   upsampling results. The worst case for commonly used sampling factors
   is about 34 bytes * width in pixels for a color image. A grayscale image
   only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG
   file (including progressive JPEGs), or whenever you select buffered-image
   mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's
   3 bytes per pixel for a color image. Worst case (1x1 sampling) requires
   6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a
   128K color lookup table and a full-image pixel buffer (3 bytes/pixel).
   This does not count any memory allocated by the application, such as a
   buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with
32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The “fixed-size” data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12. Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.)

Run-time selection and conversion of data precision are currently not supported and may be added later. Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to
compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"’s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don’t want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine XXX_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don’t need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we’d appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that char is at least 8 bits wide.
shorts at least 16 bits wide
ints at least 16 bits wide
longs at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model
if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/libjpeg.txt

No license file was found, but licenses were detected in source scan.

/*
 * transupp.c
 *
 * Copyright (C) 1997-2017, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
* jdhuff.c

* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy decoding routines.
* Both sequential and progressive modes are supported in this single module.
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):  
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/jdhuff.c

No license file was found, but licenses were detected in source scan.

/*
* jidctint.c

* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
The primary algorithm described there uses 11 multiplies and 29 adds.
We use their alternate method with 12 multiplies and 32 adds.
The advantage of this method is that no data path contains more than one
multiplication; this allows a very simple and accurate implementation in
scaled fixed-point arithmetic, with a minimal number of shifts.

We also provide IDCT routines with various output sample block sizes for
direct resolution reduction or enlargement and for direct resolving the
common 2x1 and 1x2 subsampling cases without additional resampling: N\times N
(N=1...16), 2N\times N, and N\times 2N (N=1...8) pixels for one 8\times 8 input DCT block.
For N<8 we simply take the corresponding low-frequency coefficients of
the 8\times 8 input DCT block and apply an N\times N point IDCT on the sub-block
to yield the downscaled outputs.
This can be seen as direct low-pass downsampling from the DCT domain
point of view rather than the usual spatial domain point of view,
yielding significant computational savings and results at least
as good as common bilinear (averaging) spatial downsampling.
For N>8 we apply a partial N\times N IDCT on the 8 input coefficients as
lower frequencies and higher frequencies assumed to be zero.
It turns out that the computational effort is similar to the 8\times 8 IDCT
regarding the output size.
Furthermore, the scaling and descaling is the same for all IDCT sizes.
CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
since there would be too many additional constants to pre-calculate.
* whole compression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcapistd.c
No license file was found, but licenses were detected in source scan.

/ *
* jpegint.h
* 
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jpegint.h
No license file was found, but licenses were detected in source scan.

/ *
* rdswitch.c
* 
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
* -qtables fileRead quantization tables from text file
* -scans fileRead scan script from text file
* -quality N[,N,...]Set quality ratings
* -qslots N[,N,...]Set component quantization table selectors
* -sample HxV,HxV,...]Set component sampling factors
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdswitch.c
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/ *
* jcmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcmaster.c

No license file was found, but licenses were detected in source scan.

/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 */

/* Portions of this code are based on the PBMPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that
 ** copyright notice and this permission notice appear in supporting
 ** documentation. This software is provided "as is" without express or
 ** implied warranty.
 */
/*
 jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

*/

/*
 cjpeg.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * cjpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

/*
 /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/cjpeg.c
*/
No license file was found, but licenses were detected in source scan.

/*
 * jdcoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2002-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdcoefct.c

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INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have
tried to make this software extremely portable and flexible, so that it can be
adapted to almost any environment. The downside of this decision is that the
installation process is complicated. We have provided shortcuts to simplify
the task on common systems. But in any case, you will need at least a little
familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger
program's installation procedure may take care of configuring the IJG code.
For example, Ghostscript's installation script will configure the IJG code.
You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.
Try doing
./configure
make
make test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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BEFORE YOU START
================

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE
--------------------------

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines;
  if your machine matches one of the samples, just copy the right sample
  files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script

If you are on a Unix machine, you can just type

```
./configure
```

and let the configure script construct appropriate configuration files.

If you're using "csh" on an old version of System V, you might need to type

```
sh configure
```

instead to prevent csh from trying to execute configure itself.

Expect configure to run for a few minutes, particularly on slower machines;
it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions
for GNU configure scripts. It makes a few assumptions that you may want to
override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
  If you want to build libjpeg only as a static library, say
  
  ```
  ./configure --disable-shared
  ```

  If you want to build libjpeg only as a shared library, say
  
  ```
  ./configure --disable-static
  ```

  Configure uses GNU libtool to take care of system-dependent shared library
  building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
  To force a particular compiler to be selected, use the CC option, for example
  
  ```
  ./configure CC='cc'
  ```

  The same method can be used to include any unusual compiler switches.
  For example, on HP-UX you probably want to say
  
  ```
  ./configure CC='cc -Aa'
  ```

  to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
  You can override this by saying, for example,
  
  ```
  ./configure CFLAGS='-O2'
  ```

  if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files
  into /usr/local/bin, /usr/local/man, etc. You can specify an installation
  prefix other than "/usr/local" by giving configure the option "--prefix=PATH".
* If you don't have a lot of swap space, you may need to enable the IJG software's internal virtual memory mechanism. To do this, give the option "--enable-maxmem=N" where N is the default maxmemory limit in megabytes. This is discussed in more detail under "Selecting a memory manager", below. You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files

If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig file System and/or compiler

makefile.manxjconfig.manxAmiga, Manx Aztec C
makefile.sasjconfig.sasAmiga, SAS C
makeproj.macjconfig.macApple Macintosh, Metrowerks CodeWarrior
mak*jpeg.stjconfig.stAtari ST/STE/TT, Pure C or Turbo C
makefile.bccjconfig.bccMS-DOS or OS/2, Borland C
makefile.djjconfig.djMS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6jconfig.mc6MS-DOS, Microsoft C (16-bit only)
makefile.watjconfig.watMS-DOS, OS/2, or Windows NT, Watcom C
makefile.vcjconfig.vcWindows, MS Visual C++
makefile.vsconfig.vsWindows, MS Visual C++ 6 Developer Studio
make*.vc6
makefile.vsconfig.vsWindows, Visual Studio 2017 (v15)
make*.v15
makefile.b32jconfig.vcWindows, Borland C++ 32-bit (bcc32)
makefile.mmsjconfig.vmsDigital VMS, with MMS software
makefile.vmsjconfig.vmsDigital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may
prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.

(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style
--------------------

These programs can use a Unix-like command line style which supports redirection and piping, like this:
cjpeg inputfile >outputfile
cjpeg <inputfile >outputfile
source program | cjpeg >outputfile
The simpler "two file" command line style is just
You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fdopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FOPEN or USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
--------------------------

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(), which not all non-ANSI systems have. On some systems tmpfile() may put the temporary file in a non-optimal location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything except a Unix machine, you'll need to configure the select_file_name() routine appropriately; see the comments near the head of jmemname.c. If you use this version, define NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-). This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in jconfig.h, and include the assembly file jmemdosa.asm in the programs. The supplied makefiles and jconfig files for 16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your
makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion. If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c; be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmendos.c.)

BUILDING THE SOFTWARE
======================

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.
TESTING THE SOFTWARE

As a quick test of functionality we've included a small sample image in several forms:
  testorig.jpg Starting point for the djepg tests.
  testimg.ppm The output of djepg testorig.jpg
  testimg.bmp The output of djepg -bmp -colors 256 testorig.jpg
  testimg.jpg The output of cjpeg testimg.ppm
  testprog.jpg Progressive-mode equivalent of testorig.jpg.
  testimgp.jpg The output of cjpeg -progressive -optimize testimg.ppm
(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testimg* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djepg and cjpeg by hand and compare the output files to testimg* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOCHUNK is wrong, please fix", then you need to reduce MAX_ALLOCHUNK to a value that fits in type size_t. Try adding "#define MAX_ALLOCHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djepg <testorig.jpg >out.ppm" as from "djepg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djepg-bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testimg.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with
-colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE
========================

Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say make install to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying make -n install to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files jpeglib.h jerror.h jconfig.h jmorecfg.h into your include-file directory, and put the library file libjpeg.a (extension may vary depending on system) wherever library files go. If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say make install-lib

OPTIONAL STUFF
==============

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display of percent-done progress reports. The routine provided in cdjpeg.c merely prints percentages to stderr, but you can customize it to do something fancier.
Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:

1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory containing the URT .h files (typically the "include" subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies the directory containing the URT "librl.e.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.

To do so:

1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBPLUS library, but it is expected that a future release of PBPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the cjpeg bit depth.
The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
============

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a
If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS
==================================

We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong
about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)
After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h' dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP:"

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.
To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option “-8” to the project files and replace pcfltlib.lib with pc881lib.lib in cjjpeg.prj and djjpeg.prj. Or if you don’t have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjjpeg.ttp, djjpeg.ttp, or jpegtran.ttp. You’ll have to perform the self-test by hand.

We haven’t bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don’t depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjjpeg/djjpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray’s Standard C (prior to 3.1). If you still have an old compiler, you’ll need to insert a line reading

"#pragma novector" just before the loop

for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c). [This bug may or may not still occur with the current IJG code, but it’s probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

`./configure CC=cc -Aa`

(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add "-Aa" to the CFLAGS line in the makefile.
If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:
1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part.
2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific implementation of jpeg_mem_available(). It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in jmemmac.c if you need to run it on System 6.)

NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger than available memory. If you use any memory manager back end other than jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of malloc/free. (For instance, free() may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:
The Unix-command-line-style interface can be used by defining USE_CCOMMAND. You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout. This means that when using the cjpeg/djpeg programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps USE_FDOPEN or USE_SETMODE would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script makeproj.mac to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.)
Note that the R3000 chip is found in workstations from DEC and others.

**MS-DOS, generic comments for 16-bit compilers:**

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied problème.
makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout.
See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#'" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "$(RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h).
If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

```c
/* Define "boolean" as unsigned char, not enum, per Windows custom */
 ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
 typedef unsigned char boolean;
 endif
 ifndef FALSE /* in case these macros already exist */
 define FALSE 0 /* values of boolean */
 endif
 ifndef TRUE
 define TRUE 1
 endif
 define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
 (This is already in jconfig.vc, by the way.)
```

windef.h contains the declarations
#define far
#define FAR far
Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/*#endif" around the line "#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "%s\n", buffer);
(in output_message in jerror.c) with
Message Box(GetActiveWindow(), buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise
error messages will disappear into nowhere. (Beginning with IJG v6b, this
code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in
jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling
application after a library error. This can be done with the setjmp/longjmp
technique discussed in libjpeg.txt and illustrated in example.c. (NOTE:
some older Windows C compilers provide versions of setjmp/longjmp that
don't actually work under Windows. You may need to use the Windows system
functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words,
let Windows do any virtual memory management needed. You should NOT use
jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model;
for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS
sections above for more info about memory models.) In the 16-bit memory
models only, you'll need to put
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd
have to use huge memory model, which slows things down unnecessarily.)
jmemnobs.c works without modification in large or flat memory models, but to
use medium model, you need to modify its jpeg_get_large and jpeg_free_large
routines to allocate far memory. In any case, you might like to replace
its calls to malloc and free with direct calls on Windows memory allocation
functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file
operations rather than fread/fwrite. This is only necessary if your C
compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library
will accept or deliver color pixels in BGR sample order, not RGB; BGR order
is usually more convenient under Windows. Note that this change will break
the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably
straightforward, but watch out for the following:
1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:

```c
#define GLOBAL(type)		type _far _pascal _loadds _export
#define EXTERN(type)		extern type _far _pascal _loadds
#define METHODDEF(type)		static type _far _pascal
#define JMETHOD(type,methodname,arglist)  \
        type (_far _pascal *methodname) arglist
```

For a 32-bit DLL you may want something like

```c
#define GLOBAL(type)__declspec(dllexport) type
#define EXTERN(type)__declspec(dllexport) type
#define METHODDEF(type)static type __declspec(dllexport)
#define JMETHOD(type,methodname,arglist)  \
        type (__declspec(dllexport) methodname) arglist
```

Although not all the GLOBAL routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need alteration if you want to use it for Windows --- in particular, you should use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant
definition of the variable range_limit in h2v1_merged_upsample(), at the head of the block that handles odd image width (about line 268 in v6 jdmerge.c):
/* If image width is odd, do the last output column separately */
if ((cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
Pretty bizarre, especially since the very similar routine h2v2_merged_upsample doesn't trigger the bug.
Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:
-Ot -Og
-Ot -Op
-Ot -Om
So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" { ... } around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match).
In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the command line
NMAKE /f makefile.vs  setup-vc6
This will move jconfig.vc to jconfig.h and makefiles to project files.
(Note that the renaming is critical!)

2. Open the workspace file jpeg.dsw, build the library project.
   (If you are using Developer Studio more recent than 6.0, you'll
   probably get a message saying that the project files are being updated.)

3. Open the workspace file apps.dsw, build the application projects.

4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs  test-build

5. Move the application .exe files from `app`\Release to an
   appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio
2017 (v15) or later. There is a library makefile that builds the IJG
library as a static Win32 library, and application makefiles that build
the sample applications as Win32 console applications. (Even if you only
want the library, we recommend building the applications so that you can
run the self-test.)

To use:
1. Open the Developer Command Prompt, change to the main directory and
   execute the command line
   NMAKE /f makefile.vs  setup-v15
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)

2. Open the solution file jpeg.sln, build the library project.
   a) If you are using Visual Studio more recent than
      2017 (v15), you'll probably get a message saying
      that the project files are being updated.
   b) If necessary, open the project properties and
      adapt the Windows Target Platform Version in
      the Configuration Properties, General section;
      we support the latest version at the time of release.

3. Open the solution file apps.sln, build the application projects.

4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs  test-build

5. Move the application .exe files from `app`\Release to an
   appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need
to back off the optimization switch settings. See the comments in
makefile.bcc.
SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile. If you are using configure, you can do this by saying

```
./configure RANLIB='ar -ts'
```

This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/install.txt
  No license file was found, but licenses were detected in source scan.

/*
 * jpeg_mgr.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the forward-DCT management logic.
 * This code selects a particular DCT implementation to be used,
 * and it performs related housekeeping chores including coefficient
 * quantization.
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * jdmerge.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 *
 * This file combines functions from jdsample.c and jdcvtColor.c;
 * read those files first to understand what's going on.
 *
 * When the chroma components are to be upsampled by simple replication
 * (i.e., box filtering), we can save some work in color conversion by
 * calculating all the output pixels corresponding to a pair of chroma
 * samples at one time. In the conversion equations
 * \[ R = Y + K1 \times Cr \]
 * \[ G = Y + K2 \times Cb + K3 \times Cr \]
 * \[ B = Y + K4 \times Cb \]
 * only the Y term varies among the group of pixels corresponding to a pair
 * of chroma samples, so the rest of the terms can be calculated just once.
 * At typical sampling ratios, this eliminates half or three-quarters of the
 * multiplications needed for color conversion.
 *
 * This file currently provides implementations for the following cases:
 * YCC \(\rightarrow\) RGB color conversion only (YCbCr or BG_YCC).
 * Sampling ratios of 2h1v or 2h2v.
 * No scaling needed at upsample time.
 * Corner-aligned (non-CCIR601) sampling alignment.
 * Other special cases could be added, but in most applications these are
 * the only common cases. (For uncommon cases we fall back on the more
 * general code in jdsample.c and jdcvtColor.c.)
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jdmerge.c
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/*
 * jmemmac.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
jmemmac.c provides an Apple Macintosh implementation of the system-dependent portion of the JPEG memory manager.

If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the JPEG_INTERNALS part of jconfig.h.

jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr instead of malloc and free. It accurately determines the amount of memory available by using CompactMem. Notice that if left to its own devices, this code can chew up all available space in the application's zone, with the exception of the rather small "slop" factor computed in jpeg_mem_available(). The application can ensure that more space is left over by reducing max_memory_to_use.

Large images are swapped to disk using temporary files and System 7.0+'s temporary folder functionality.

Note that jmemmac.c depends on two features of MacOS that were first introduced in System 7: FindFolder and the FSSpec-based calls.

If your application uses jmemmac.c and is run under System 6 or earlier, and the jpeg library decides it needs a temporary file, it will abort, printing error messages about requiring System 7. (If no temporary files are created, it will run fine.)

If you want to use jmemmac.c in an application that might be used with System 6 or earlier, then you should remove dependencies on FindFolder and the FSSpec calls. You will need to replace FindFolder with some other mechanism for finding a place to put temporary files, and you should replace the FSSpec calls with their HFS equivalents:

FSpDelete -> HDelete
FSpGetFInfo -> HGetFInfo
FSpCreate -> HCreate
FSpOpenDF -> HOpen  *** Note: not HOpenDF ***
FSMakeFSSpec -> (fill in spec by hand.)

(Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen, which is on all HFS macs. HOpenDF is a System 7 addition which avoids the ages-old problem of names starting with a period.)

Contributed by Sam Bushell (jsam@iagu.on.net) and Dan Gildor (gyld@in-touch.com).

Found in path(s):
/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemmac.c
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/*
 * jdmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdmainct.c

No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdinput.c

No license file was found, but licenses were detected in source scan.

/*
 * wrrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/wrrle.c

No license file was found, but licenses were detected in source scan.

/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file defines the interface between the system-independent
 * and system-dependent portions of the JPEG memory manager. No other
 * modules need include it. (The system-independent portion is jmemmgr.c;
 * there are several different versions of the system-dependent portion.)
 *
 * This file works as-is for the system-dependent memory managers supplied
 * in the IJG distribution. You may need to modify it if you write a
 * custom memory manager. If system-dependent changes are needed in
 * this file, the best method is to #ifdef them based on a configuration
 * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
 * and USE_MAC_MEMMGR.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/jmemsys.h

No license file was found, but licenses were detected in source scan.

/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.
* This implementation is based on an algorithm described in
  The primary algorithm described there uses 11 multiplies and 29 adds.
  We use their alternate method with 12 multiplies and 32 adds.
  The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in scaled fixed-point arithmetic, with a minimal number of shifts.
* We also provide FDCT routines with various input sample block sizes for direct resolution reduction or enlargement and for direct resolving the common 2x1 and 1x2 subsampling cases without additional resampling: NxN (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
  For N<8 we fill the remaining block coefficients with zero.
  For N>8 we apply a partial N-point FDCT on the input samples, computing just the lower 8 frequency coefficients and discarding the rest.
* We must scale the output coefficients of the N-point FDCT appropriately to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling is folded into the constant multipliers (pass 2) and/or final/initial shifting.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
  /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains tables and miscellaneous utility routines needed for both compression and decompression.
* Note we prefix all global names with ”j“ to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jutils.c
No license file was found, but licenses were detected in source scan.

疗法
* jdtrans.c

* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdtrans.c
No license file was found, but licenses were detected in source scan.

疗法
* jdpostct.c

* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
*
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdpostct.c
No license file was found, but licenses were detected in source scan.

疗法
* jmemnobs.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/
*
* jmemansi.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a simple generic implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that you have the ANSI-standard library routine tmpfile().
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.40/jpeg-9c-tar-gz/jpeg-9c/jmemansi.c
No license file was found, but licenses were detected in source scan.

/
*
* wrjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/ *
* jfdctflt.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a floating-point implementation of the
* forward DCT (Discrete Cosine Transform).
* This implementation should be more accurate than either of the integer
* DCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/*
 * jcparam.c
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcparam.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcolor.c
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 * Developed 1997-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains portable arithmetic entropy encoding routines for JPEG
 * Both sequential and progressive modes are supported in this single module.
 * Suspension is not currently supported in this module.
 */
Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/jcarith.c
No license file was found, but licenses were detected in source scan.

/*
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/

/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/jpeg-9c-tar-gz/jpeg-9c/jmemname.c
No license file was found, but licenses were detected in source scan.

/*
* jmemname.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a generic implementation of the system-dependent
* portion of the JPEG memory manager. This implementation assumes that
* you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
* `/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemname.c`

No license file was found, but licenses were detected in source scan.

/*
* jconfig.txt
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
* *
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
*
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/*
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char" ?
* How about "unsigned short" ?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT
/* Define "void" as "char" if your compiler doesn't know about type void.
 * NOTE: be sure to define void such that "void *" represents the most general
 * pointer type, e.g., that returned by malloc().
 */
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
 */
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
 * If you're not sure, leaving it undefined will work at some cost in speed.
 * If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
 */
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
 */
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
 */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
 * but does have a BSD-style <strings.h>.
 */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
 * ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
 * <sys/types.h> instead.
 */
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
 * unless you are using a large-data memory model or 80386 flat-memory mode.
 * On less brain-damaged CPUs this symbol must not be defined.
 * (Defining this symbol causes large data structures to be referenced through
 * "far" pointers and to be allocated with a special version of malloc.)
 */
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
 * than the first 15 characters.
 */
#undef NEED_SHORT_EXTERNAL_NAMES
/* Although a real ANSI C compiler can deal perfectly well with pointers to 
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI 
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy, 
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you 
* actually get "missing structure definition" warnings or errors while 
* compiling the JPEG code. 
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems. 
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__	/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE		/* in case these macros already exist */
#define FALSE	0		/* values of boolean */
#endif
#ifndef TRUE
#define TRUE	1
#endif
#define HAVE_BOOLEAN		/* prevent jmorecfg.h from redefining it */
#endif

/* The following options affect code selection within the JPEG library, 
* but they don't need to be visible to applications using the library. 
* To minimize application namespace pollution, the symbols won't be 
* defined unless JPEG_INTERNALS has been defined. 
*/
#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical 
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift, 
* which is the normal and rational definition. 
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/* The remaining options do not affect the JPEG library proper, 
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c). 
* Other applications can ignore these.
*/
#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED/* BMP image file format */
#define GIF_SUPPORTED/* GIF image file format */
#define PPM_SUPPORTED/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED/* Utah RLE image file format */
#define TARGA_SUPPORTED/* Targa image file format */

/* Define this if you want to name both input and output files on the command
 * line, rather than using stdout and optionally stdin. You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout. See comments at
 * head of cjpeg.c or djpeg.c.
 */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
 */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

---

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: For conditions of distribution and use, see the accompanying README file.

---

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jconfig.txt
No license file was found, but licenses were detected in source scan.
No license file was found, but licenses were detected in source scan.

/*
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrbmp.c

No license file was found, but licenses were detected in source scan.

/*
 * jdmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
 * and with determining the number of passes and the work to be done in each
 * pass.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdmaster.c

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an array of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. The library does not support the hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may
never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However,
the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

**Preprocessing:**
- Color space conversion (e.g., RGB to YCbCr).
- Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

**JPEG proper:**
- MCU assembly, DCT, quantization.
- Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

**JPEG proper:**
- Entropy decoding (sequential or progressive, Huffman or arithmetic).
- Dequantization, inverse DCT, MCU disassembly.

**Postprocessing:**
- Upsampling. Optionally, this step may be able to do more general rescaling of the image.
- Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
  [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C.
The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirection through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall...
control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing.  
       The individual processing modules to be used in this run are selected  
       and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed  
       and calls each active processing module to configure itself  
       appropriately at the beginning of each pass. End-of-pass processing,  
       where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each  
   inter-processing-step data buffer. This module is responsible for  
   invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

\[
\begin{array}{c}
\text{input data} \\
\rightarrow \text{processing step A} \\
\rightarrow \text{buffer} \\
\rightarrow \text{processing step B} \\
\rightarrow \text{output data}
\end{array}
\]

\[
\begin{array}{c}
\text{------------------ controller ------------------}
\end{array}
\]

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a "strip"
buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
  |-- Preprocessing controller --|
     |-- Downsampling
Main controller --|
     |-- Forward DCT, quantize
     |-- Coefficient controller --|
             |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required.
Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of block_size samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of block_size rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays
* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Main controller --|
 | | |-- Entropy decoding
 | |-- Coefficient controller --|
 | | |-- Dequantize, Inverse DCT
 | | |-- Upsampling
 | |-- Postprocessing controller --|-- Colorspace conversion
 | |-- Color quantization
 | |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy
DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g.,
generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output
run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined
as ",((value) & 0xFF)" on signed-char machines and ",(int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)
Arrays of DCT-coefficient values use the following data structure:

```c
typedef short JCOEF; // a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; // an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; // ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; // ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; // ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to block_size rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and
then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used
to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library’s memory manager controls allocation and deallocation of memory, and it manages large “virtual” data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in “pools” of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
* Pool allocation heuristics may differ for large and small objects.  
Note that individual "large" objects cannot exceed the size allowed by  
type size_t, which may be 64K or less on some machines.

3. "Virtual" objects.  These are large 2-D arrays of JSAMPLEs or JBLOCKs  
(typically large enough for the entire image being processed).  The  
memory manager provides stripwise access to these arrays.  On machines  
without virtual memory, the rest of the array may be swapped out to a  
temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large  
objects for the data proper and small objects for the row pointers.  For  
convenience and speed, the memory manager provides single routines to create  
these structures.  Similarly, virtual arrays include a small control block  
and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image  
lifespan.  (Permanent lifespan would not be reasonable, and pass lifespan is  
not very useful since a virtual array's raison d'etre is to store data for  
multiple passes through the image.)  We also expect that only "small" objects  
will be given permanent lifespan, though this restriction is not required by  
the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by  
making the in-memory buffers for virtual arrays be as large as possible.  
(For small images, the buffers might fit entirely in memory, so blind  
swapping would be very wasteful.)  The memory manager will adjust the height  
of the buffers to fit within a prespecified maximum memory usage.  In order  
to do this in a reasonably optimal fashion, the manager needs to allocate all  
of the virtual arrays at once.  Therefore, there isn't a one-step allocation  
routine for virtual arrays; instead, there is a "request" routine that simply  
allocates the control block, and a "realize" routine (called just once) that  
determines space allocation and creates all of the actual buffers.  The  
realize routine must allow for space occupied by non-virtual large objects.  
(We don't bother to factor in the space needed for small objects, on the  
grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business  
with the memory manager:
1. Modules must request virtual arrays (which may have only image lifespan)  
during the initial setup phase, i.e., in their jinit_xxx routines.  
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be  
allocated during initial setup.  
3. realize_virt_arrays will be called at the completion of initial setup.  
The above conventions ensure that sufficient information is available  
for it to choose a good size for virtual array buffers.  
Small objects of any lifespan may be allocated at any time.  We expect that  
the total space used for small objects will be small enough to be negligible  
in the realize_virt_arrays computation.
In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

- jpeg_mem_init, jpeg_mem_term: system-dependent initialization/shutdown
- jpeg_get_small, jpeg_free_small: interface to malloc and free library routines (or their equivalents)
- jpeg_get_large, jpeg_free_large: interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small
- jpeg_mem_available: estimate available memory
- jpeg_open_backing_store: create a backing-store object
- read_backing_store, manipulate a backing-store object
- write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_openBacking_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)
The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/structure.txt
No license file was found, but licenses were detected in source scan.

/*
 * jmorecfg.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 1997-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains additional configuration options that customize the
 * JPEG software for special applications or support machine-dependent
 * optimizations. Most users will not need to touch this file.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmorecfg.h
No license file was found, but licenses were detected in source scan.
/*
 * jquant1.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jquant1.c

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The
distribution includes the JPEG library proper, plus two application
programs ("cjpeg" and "djpeg") which use the library to convert JPEG
files to and from some other popular image formats. A third application
"jpegtran" uses the library to do lossless conversion between different
variants of JPEG. There are also two stand-alone applications,
"rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY
================

Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present
in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed
for a standard installation.
jerror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJG .c files to reference
system include files.
jdct.h Private declarations for forward & reverse DCT subsystems.
Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jcapi.c Application program interface: core routines for compression.
jcapistd.c Application program interface: standard compression.
jdapi.c Application program interface: core routines for decompression.
jdapistd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression and decompression.
jparam.c Compression parameter setting helper routines.
jtrans.c API and library routines for transcoding compression.
jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.
jmaster.c Master control: setup and inter-pass sequencing logic.
jmainct.c Main buffer controller (preprocessor => JPEG compressor).
jprepc.c Preprocessor buffer controller.
jcoeft.c Buffer controller for DCT coefficient buffer.
jcolor.c Color space conversion.
jsample.c Downsampling.
jdctmgr.c DCT manager (DCT implementation selection & control).
jfdctint.c Forward DCT using slow-but-accurate integer method.
jfdctfst.c Forward DCT using faster, less accurate integer method.
jfdctflt.c Forward DCT using floating-point arithmetic.
jhuff.c Huffman entropy coding.
jcarith.c Arithmetic entropy coding.
jmarker.c JPEG marker writing.
jdatadst.c Data destination managers for memory and stdout output.

Decompression side of the library:
jdmaster.c: Master control: determines which other modules to use.
jdinput.c: Input controller: controls input processing modules.
jdmaint.c: Main buffer controller (JPEG decompressor => postprocessor).
jdcoefct.c: Buffer controller for DCT coefficient buffer.
jdpostct.c: Postprocessor buffer controller.
jdmrk.c: JPEG marker reading.
jdhuff.c: Huffman entropy decoding.
jdarith.c: Arithmetic entropy decoding.
jdctmgr.c: DCT manager (IDCT implementation selection & control).
jdctint.c: Inverse DCT using slow-but-accurate integer method.
jdctflt.c: Inverse DCT using faster, less accurate integer method.
jdctfl.c: Inverse DCT using floating-point arithmetic.
jdsmp.c: Upsampling.
jdcolor.c: Color space conversion.
jdmerge.c: Merged upsampling/color conversion (faster, lower quality).
jquant1.c: One-pass color quantization using a fixed-spacing colormap.
jquant2.c: Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
jdatasrc.c: Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c: Tables for common use in arithmetic entropy encoding and
decoding routines.
jerror.c: Standard error handling routines (application replaceable).
jmemmgr.c: System-independent (more or less) memory management code.
jutils.c: Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG
distribution includes the following implementations of the system-dependent
module:

jmemnobs.c: "No backing store": assumes adequate virtual memory exists.
jmemansi.c: Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c: Makes temporary files with program-generated file names.
jmemdos.c: Custom implementation for MS-DOS (16-bit environment only):
can use extended and expanded memory as well as temp files.
jmemmac.c: Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an
installed JPEG library (see install.txt for hints about which one to use).
On unusual systems you may find it worthwhile to make a special
system-dependent memory manager.

Non-C source code files:

jmemdosa.asm: 80x86 assembly code support for jmemdos.c; used only in
MS-DOS-specific configurations of the JPEG library.

CJPE/DEPG/JPEGTRAN

====================

Include files:

cdjep.h Declarations shared by cjep/djpeg/jpegtran modules.
cederror.h Additional error and trace message codes for cjep et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjep.c Main program for cjep.
djpeg.c Main program for djpeg.
jpegran.c Main program for jpegtran.
cdpfeg.c Utility routines used by all three programs.
rdcolmap.c Code to read a colormap file for djpeg's "-map" switch.
rdsucw.c Code to process some of cjep's more complex switches.
Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjep:

rdbmp.c BMP file input.
rdgif.c GIF file input (now just a stub).
rddpm.c PPM/PGM file input.
rdre.c Utah RLE file input.
rtdarga.c Targa file input.

Image file writer modules for djpeg:

wrdbmp.c BMP file output.
wrgif.c GIF file output (a mere shadow of its former self).
rwpdm.c PPM/PGM file output.
wrre.c Utah RLE file output.
wrtega.c Targa file output.

RDJPGCOM/WRJPGCOM

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C source code files:

rdjpcom.c Stand-alone rdjpcom application.
wrjpcom.c Stand-alone wrjpcom application.
These programs do not depend on the IJG library. They do use jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES
================

Documentation (see README for a guide to the documentation files):

README
* .txt
*.1
change.log
example.c

Configuration/installation files and programs (see install.txt for more info):

configure
configure.ac
ltmain.sh
config.guess
config.sub
depcomp
missing
ar-lib
compile
install-sh

Test files (see install.txt for test procedure):

test

Found in path(s):
*/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/filelist.txt

No license file was found, but licenses were detected in source scan.

/*
* transupp.h
* Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/transupp.h
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 */
A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.
Found in path(s):
  */opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
 * rdbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed BMP format).
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
  */opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

Found in path(s):
  */opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jctrans.c
No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software
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README for release 9c of 14-Jan-2018
====================================

This distribution contains the ninth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
======================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
Please read at least the files install.txt and usage.txt. Some information

can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
We have made no provision for supporting the hierarchical or lossless
processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between
different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple
applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
REFERENCES section for introductory material.) Rather, it is intended to
be reliable, portable, industrial-strength code. We do not claim to have
achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products.
No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

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(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".
We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES
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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/ WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the “JFIF” conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.iijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
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The "official" archive site for this software is www.ijg.org.
The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr9c.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
=================

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

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The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format! (In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the
name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code. The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties. We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.

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TO DO
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Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.

More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

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 *
 * This include file contains common declarations for the forward and
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 * (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
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 */

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 *
 * This file contains compression data destination routines for the case of
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 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

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* Edit this file to add new codes, or to translate the message strings to
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*/

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*
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
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* we must exit back to the application. On resumption, we reprocess
* the marker.
* /

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1.900 openssl 1.0.1e 57.el6

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1.902 xml-apis 1.3.02
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Last revised by Reagle $Date: 2005/06/03 22:49:13 $

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 */

class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {
    }

    public Permission(String permission, String description) {

this.description = description;
this.permission = permission;
}

/**
 * Gets the permission description
 * @return the description
 */
public String getDescription() {
   return description;
}

/**
 * Sets the permission description
 * @param description
 */
public void setDescription(String description) {
   this.description = description;
}

/**
 * Get the permission value such as "read_calendar"
 * @return the value
 */
public String getPermission() {
   return permission;
}

/**
 * Sets the permission value such as "read_calendar"
 * @param permission the permission value
 */
public void setPermission(String permission) {
   this.permission = permission;
}

/**
 * Indicates if this permission has been allocated by default or not.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only.
 * For example, the read-only check-box controls can be used to represent
 * the default scopes
 * @param isDefault true if the permission has been allocated by default
 */
public void setDefault(boolean value) {
   this.isDefault = value;
}
public boolean isDefault() {
    return isDefault;
}

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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whether or not they are linked directly with the Library itself.

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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.913 libarchive 3.1.2-7insieme.x86_64

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1.915 jstl 1.2

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package org.apache.taglibs.standard;

/**
 * [lifted from xalan]
 * <meta name="usage" content="general"/>
 * Administrative class to keep track of the version number of
 * the standard tag library.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.
 */

public class Version
{

/**
 * Get the basic version string for the current release.
 * Version String formatted like
 * <CODE>"<B>standard-taglib</B> v.r[.dd| <B>D</B>nn"]</CODE>.
 * 
 * Futurework: have this read version info from jar manifest.
 */

public static String getVersion()
{
    return getProduct() + " " +
            getMajorVersionNum() + "." + getReleaseVersionNum()+ "." +
            getMaintenanceVersionNum() +}
((getDevelopmentVersionNum() > 0) ?
   ("_D" + getDevelopmentVersionNum()) : "")
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product
 */
public static String getProduct()
{
    return "standard-taglib";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return 1;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
return 2;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return 0;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    return 0;
}

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contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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* /opt/cola/permits/1136045075_1613665083.17/0/jmespath-java-1-11-61-sources-1-jar/com/amazonaws/jmespath/OpLessThanOrEqualTo.java
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* /opt/cola/permits/1136045075_1613665083.17/0/jmespath-java-1-11-61-sources-1-jar/com/amazonaws/jmespath/JmesPathValueProjection.java
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include/GL/wglxext.h :

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1.938 openssl-fipscanister unknown

1.939 cxf-rt-frontend-simple 2.7.4

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1.941 attr 1.1.0

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jpg "Clone me," says Dolly sheepishly.

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33. [36] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
34. [37] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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45. [49] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
46. [50] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
47. [51] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/subdirectory
48. [52] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
49. [53] Michael Shields <shields@tembel.org> USNO clock driver
50. [54] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
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- Bernd Altmeier &lt;altmeier@atlsdf.de&gt; hopf Elektronik serial line and PCI-bus devices
- Takao Abe &lt;takao_abe@xurb.jp&gt; Clock driver for JJY receivers
- Mark Andrews &lt;mark_andrews@isc.org&gt; Leitch atomic clock controller
- Bernd Altmeier &lt;altmeier@atlsdf.de&gt; hopf Elektronik serial line and PCI-bus devices
- Viraj Bais &lt;vbais@mailman1.intel.com&gt; Clayon Kirkwood &lt;kirkwood@striderfm.intel.com&gt; port to WindowsNT 3.5
- Karl Berry &lt;karl@owl.HQ.ileaf.com&gt; Michael Barone &lt;michael.barone@lmco.com&gt; GPSVME fixes
- Greg Brackley &lt;ggreg.brackley@bigfoot.com&gt; Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
- Marc Brett &lt;Marc.Brett@westgeo.com&gt; Magnavox GPS clock driver
- Pietro Brooks &lt;Piete.Brooks@cl.cam.ac.uk&gt; MSF clock driver, Trimble PARSE support
- Nelson B Bolyard &lt;nelson@bolyard.me&gt; update and complete broadcast and crypto features in sntp
- Jean-Francois Boudreault &lt;Jean-Francois.Boudreault@viagenie.qc.ca&gt; IPv6 support
- Reg Clemens &lt;reg@dsw.com&gt; Oncore driver (Current maintainer)
- Steve Clift &lt;clift@ml.csiro.au&lt;&gt; OMEGA clock driver
- Casey Crellin &lt;casey@csc.co.za&gt; vxWorks (Tornado) port and help with target configuration
- Sven Dietrich &lt;sven_dietrich@trimble.com&gt; Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
- John A. Dundas III &lt;John.A.Dundas@salt.jpl.nasa.gov&gt; Apple A/UX port
- Torsten Duwe &lt;torsten@immd4.informatik.uni-erlangen.de&gt; Linux port
- Dennis Ferguson &lt;dennis@mrbill.canet.ca&gt; foundation code for NTP Version 2 as specified in RFC-1119
- John Hay &lt;jhay@icomtey.csir.co.za&gt; IPv6 support and testing
- Dave Hart &lt;davehart@davehart.com&gt; General maintenance, Windows port interpolation rewrite
- Claas Hilbrecht &lt;neoclock4x@linum.com&gt; NeoClock4X clock driver
Glenn Hollinger
&lt;glenn@herald.usask.ca&gt; GOES clock driver
Mike Iglesias &lt;iglesias@uci.edu&gt; DEC Alpha port
Jim Jagielski &lt;jagielski@jagubox.gsfc.nasa.gov&gt; A/UX port
Jeff Johnson &lt;jbj@chatham.usdesign.com&gt; massive prototyping overhaul
Hans Lambermont &lt;Hans.Lambermont@nl.origin-it.com&gt; or &lt;H.Lambermont@chello.nl&gt; or &lt;Hans.Lambermont@nl.origin-it.com&gt; ntpsweep
Poul-Henning Kamp &lt;phk@FreeBSD.ORG&gt; Oncore driver (Original author)
Frank Kardel &lt;f.kardel@ntp.org&gt; PARSE &lt;GENERIC&gt; driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
William L. Jones &lt;william.jones@hermes.chpc.utexas.edu&gt; RS/6000 AIX modifications, HPUX modifications
Dave Katz &lt;dkatz@cisco.com&gt; RS/6000 AIX port
Craig Leres &lt;leres@ee.lbl.gov&gt; 4.4BSD port, ppsclock, Magnavox GPS clock driver
George Lindholm &lt;lindholm@ucs.ubc.ca&gt; SunOS 5.1 port
Louis A. Mamakos &lt;louie@ni.umd.edu&gt; MD5-based authentication
Lars H. Mathiesen &lt;thrinn@diku.dk&gt; adaptation of foundation code for Version 3 as specified in RFC-1305
Danny Mayer &lt;mayer@ntp.org&gt; Network I/O, Windows Port, Code Maintenance
David L. Mills &lt;mills@udel.edu&gt; Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
Wolfgang Moeller &lt;moeller@gwdgv1.dnet.gwdg.de&gt; VMS port
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Derek Mulcahy &lt;derek@toybox.demon.co.uk&gt; and &lt;d@hd.org&gt; ARCRON MSF clock driver
Rob Neal &lt;robert.lee@ntp.org&gt; Bancomm refclock and config/parse code maintenance
Rainer Pruy &lt;Rainer.Pruy@informatik.uni-erlangen.de&gt; monitoring/trap scripts, statistics file handling
Digital UNIX V4.0 port

SunOS streams modules

Unixware1 port

USNO clock driver

Datum PTS clock driver

IP multicast/anycast support

TRAK clock driver

TrueTime GPS driver, generic TrueTime clock driver

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/* -*- Mode: Text -*- */
copyright = {
  date = "1970-2011";
  owner = "David L. Mills and/or others";
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
  type = note;
  text = <<- _EndOfDoc_
see html/copyright.html

  _EndOfDoc_;
long-opts;
config-header = config.h;
environrc;
no-misuse-usage;

version = `
  eval VERSION=`sed -e 's/.*,\[// -e \]\.\]\].*\'/> ../version.m4` 
  [ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid 
  echo $VERSION`;

version-value = "!/ Don't use -v as a shortcut for --version */

1.943 jetty-util 8.1.7.v20120910

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1.945 ognl 3.0.21

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/**
 * Thrown during bytecode enhancement conversions of ognl expressions to indicate
 * that a certain expression isn't currently supported as a pure java bytecode enhanced
 * version.
 *
 * <p>
 * If this exception is thrown it is expected that ognl will fall back to default ognl
 * evaluation of the expression.
 * </p>
 *
 * @author jkuhnert
 */

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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package com.csvreader;

import java.io.FileOutputStream;
import java.io.IOException;
import java.io.OutputStream;
import java.io.OutputStreamWriter;
import java.io.PrintWriter;
import java.io.Writer;
import java.nio.charset.Charset;

/**
 * A stream based writer for writing delimited text data to a file or a stream.
 */
public class CsvWriter {
    private PrintWriter outputStream = null;

    private String fileName = null;

    private boolean firstColumn = true;

    private boolean useCustomRecordDelimiter = false;

    private Charset charset = null;

    // this holds all the values for switches that the user is allowed to set
    private UserSettings userSettings = new UserSettings();

    private boolean initialized = false;

    private boolean closed = false;

    /**
     * Double up the text qualifier to represent an occurrence of the text
     * qualifier.
     */
    public static final int ESCAPE_MODE_DOUBLED = 1;

    /**
     * Use a backslash character before the text qualifier to represent an
     * occurrence of the text qualifier.
     */
    public static final int ESCAPE_MODE_BACKSLASH = 2;
/**
 * Creates a {link com.csvreader.CsvWriter CsvWriter} object using a file
 * as the data destination.
 */

/*
 * param fileName
 * The path to the file to output the data.
 */
/*
 * param delimiter
 * The character to use as the column delimiter.
 */
/*
 * param charset
 * The [{link java.nio.charset.Charset Charset} to use while
 * writing the data.
 */

public CsvWriter(String fileName, char delimiter, Charset charset) {
    if (fileName == null) {
        throw new IllegalArgumentException("Parameter fileName can not be null.");
    }
    if (charset == null) {
        throw new IllegalArgumentException("Parameter charset can not be null.");
    }
    this.fileName = fileName;
    userSettings.Delimiter = delimiter;
    this.charset = charset;
}

/**
 * Creates a {link com.csvreader.CsvWriter CsvWriter} object using a Writer
 * to write data to.
 */

public CsvWriter(String fileName) {
    this(fileName, Letters.COMMA, Charset.forName("ISO-8859-1");
}

/**
 * Creates a {link com.csvreader.CsvWriter CsvWriter} object using a file
 * as the data destination. Uses a comma as the column delimiter and
 * ISO-8859-1 as the [{link java.nio.charset.Charset Charset}.
 */
public CsvWriter(String fileName) {
    this(fileName, Letters.COMMA, Charset.forName("ISO-8859-1");
}

/**
 * param fileName
 * The path to the file to output the data.
 */
/*
 * param outputStream
 * The stream to write the column delimited data to.
 */
/*
 * param delimiter
 * The character to use as the column delimiter.
 */
public CsvWriter(Writer outputStream, char delimiter) {
    if (outputStream == null) {
        throw new IllegalArgumentException("Parameter outputStream can not be null.");
    }

    this.outputStream = new PrintWriter(outputStream);
    userSettings.Delimiter = delimiter;
    initialized = true;
}

/**
 * Creates a {link com.csvreader.CsvWriter CsvWriter} object using an
 * OutputStream to write data to.
 * 
 * @param outputStream
 *            The stream to write the column delimited data to.
 * @param delimiter
 *            The character to use as the column delimiter.
 * @param charset
 *            The {link java.nio.charset.Charset Charset} to use while
 *            writing the data.
 */
public CsvWriter(OutputStream outputStream, char delimiter, Charset charset) {
    this(new OutputStreamWriter(outputStream, charset), delimiter);
}

/**
 * Gets the character being used as the column delimiter.
 * 
 * @return The character being used as the column delimiter.
 */
public char getDelimiter() {
    return userSettings.Delimiter;
}

/**
 * Sets the character to use as the column delimiter.
 * 
 * @param delimiter
 *            The character to use as the column delimiter.
 */
public void setDelimiter(char delimiter) {
    userSettings.Delimiter = delimiter;
}

public char getRecordDelimiter() {
    return userSettings.RecordDelimiter;
}
/**
 * Sets the character to use as the record delimiter.
 *
 * @param recordDelimiter
 * The character to use as the record delimiter. Default is
 * combination of standard end of line characters for Windows,
 * Unix, or Mac.
 */
public void setRecordDelimiter(char recordDelimiter) {
    useCustomRecordDelimiter = true;
    userSettings.RecordDelimiter = recordDelimiter;
}

/**
 * Gets the character to use as a text qualifier in the data.
 *
 * @return The character to use as a text qualifier in the data.
 */
public char getTextQualifier() {
    return userSettings.TextQualifier;
}

/**
 * Sets the character to use as a text qualifier in the data.
 *
 * @param textQualifier
 * The character to use as a text qualifier in the data.
 */
public void setTextQualifier(char textQualifier) {
    userSettings.TextQualifier = textQualifier;
}

/**
 * Whether text qualifiers will be used while writing data or not.
 *
 * @return Whether text qualifiers will be used while writing data or not.
 */
public boolean getUseTextQualifier() {
    return userSettings.UseTextQualifier;
}

/**
 * Sets whether text qualifiers will be used while writing data or not.
 *
 * @param useTextQualifier
 * Whether to use a text qualifier while writing data or not.
 */
public void setUseTextQualifier(boolean useTextQualifier) {
    userSettings.UseTextQualifier = useTextQualifier;
}

public int getEscapeMode() {
    return userSettings.EscapeMode;
}

public void setEscapeMode(int escapeMode) {
    userSettings.EscapeMode = escapeMode;
}

public void setComment(char comment) {
    userSettings.Comment = comment;
}

public char getComment() {
    return userSettings.Comment;
}

/**
 * Whether fields will be surrounded by the text qualifier even if the
 * qualifier is not necessarily needed to escape this field.
 * @return Whether fields will be forced to be qualified or not.
 */
public boolean getForceQualifier() {
    return userSettings.ForceQualifier;
}

/**
 * Use this to force all fields to be surrounded by the text qualifier even
 * if the qualifier is not necessarily needed to escape this field. Default
 * is false.
 * @param forceQualifier
 * Whether to force the fields to be qualified or not.
 */
public void setForceQualifier(boolean forceQualifier) {
    userSettings.ForceQualifier = forceQualifier;
}

/**
 * Writes another column of data to this record.
 * @param content
 * The data for the new column.
 * @param preserveSpaces
 */
public void write(String content, boolean preserveSpaces) throws IOException {
    checkClosed();
    checkInit();

    if (content == null) {
        content = "";
    }

    if (!firstColumn) {
        outputStream.write(userSettings.Delimiter);
    }

    boolean textQualify = userSettings.ForceQualifier;

    if (!preserveSpaces && content.length() > 0) {
        content = content.trim();
    }

    if (!textQualify && userSettings.UseTextQualifier &&
        (content.indexOf(userSettings.TextQualifier) > -1 ||
         content.indexOf(userSettings.Delimiter) > -1 ||
         (userCustomRecordDelimiter &&
          content.indexOf(Letters.LF) > -1 || content.indexOf(Letters.CR) > -1) ||
         (firstColumn && content.length() > 0 && content.charAt(0) == userSettings.Comment)) ||
        // check for empty first column, which if on its own line must be qualified or the line will be skipped
        (firstColumn && content.length() == 0)) {
        textQualify = true;
    }

    if (userSettings.UseTextQualifier && !textQualify && content.length() > 0 && preserveSpaces) {
        char firstLetter = content.charAt(0);
        if (firstLetter == Letters.SPACE || firstLetter == Letters.TAB) {
if (!textQualify && content.length() > 1) {
    char lastLetter = content.charAt(content.length() - 1);

    if (lastLetter == Letters.SPACE || lastLetter == Letters.TAB) {
        textQualify = true;
    }
}

if (textQualify) {
    outputStream.write(userSettings.TextQualifier);

    if (userSettings.EscapeMode == ESCAPE_MODE_BACKSLASH) {
        content = replace(content, "" + Letters.BACKSLASH, ""
                        + Letters.BACKSLASH + Letters.BACKSLASH);
        content = replace(content, "" + userSettings.TextQualifier, ""
                        + Letters.BACKSLASH + userSettings.TextQualifier);
    } else {
        content = replace(content, "" + userSettings.TextQualifier, ""
                        + userSettings.TextQualifier
                        + userSettings.TextQualifier);
    }
} else if (userSettings.EscapeMode == ESCAPE_MODE_BACKSLASH) {
    content = replace(content, "" + Letters.BACKSLASH, ""
                      + Letters.BACKSLASH + Letters.BACKSLASH);
    content = replace(content, "" + userSettings.Delimiter, ""
                      + Letters.BACKSLASH + userSettings.Delimiter);
    }

    if (useCustomRecordDelimiter) {
        content = replace(content, "" + userSettings.RecordDelimiter,
                           "" + Letters.BACKSLASH + userSettings.RecordDelimiter);
    } else {
        content = replace(content, "" + Letters.CR, ""
                          + Letters.BACKSLASH + Letters.CR);
        content = replace(content, "" + Letters.LF, ""
                          + Letters.BACKSLASH + Letters.LF);
    }

    if (firstColumn && content.length() > 0
        && content.charAt(0) == userSettings.Comment) {
        if (content.length() > 1) {
            content = "" + Letters.BACKSLASH + userSettings.Comment
                        + content.substring(1);
        } else {
            content = "" + Letters.BACKSLASH + userSettings.Comment;
        }
    }
outputStream.write(content);

if (textQualify) {
    outputStream.write(userSettings.TextQualifier);
}

firstColumn = false;

/**
 * Writes another column of data to this record. Does not preserve
 * leading and trailing whitespace in this column of data.
 *
 * @param content
 *            The data for the new column.
 * @exception IOException
 *                Thrown if an error occurs while writing data to the
 *                destination stream.
 */
public void write(String content) throws IOException {
    write(content, false);
}

public void writeComment(String commentText) throws IOException {
    checkClosed();
    checkInit();
    outputStream.write(userSettings.Comment);
    outputStream.write(commentText);
    if (useCustomRecordDelimiter) {
        outputStream.write(userSettings.RecordDelimiter);
    } else {
        outputStream.println();
    }
    firstColumn = true;
}

/**
 * Writes a new record using the passed in array of values.
 *
* @param values
*     Values to be written.
*
* @param preserveSpaces
*     Whether to preserve leading and trailing spaces in columns
*     while writing out to the record or not.
*
* @throws IOException
*     Thrown if an error occurs while writing data to the
*     destination stream.
*/
public void writeRecord(String[] values, boolean preserveSpaces) throws IOException {
    if (values != null && values.length > 0) {
        for (int i = 0; i < values.length; i++) {
            write(values[i], preserveSpaces);
        }
        endRecord();
    }
}

/**
* Writes a new record using the passed in array of values.
*
* @param values
*     Values to be written.
*
* @throws IOException
*     Thrown if an error occurs while writing data to the
*     destination stream.
*/
public void writeRecord(String[] values) throws IOException {
    writeRecord(values, false);
}

/**
* Ends the current record by sending the record delimiter.
*
* @exception IOException
*     Thrown if an error occurs while writing data to the
*     destination stream.
*/
public void endRecord() throws IOException {
    checkClosed();
    checkInit();
}
if (useCustomRecordDelimiter) {
  outputStream.write(userSettings.RecordDelimiter);
} else {
  outputStream.println();
}

firstColumn = true;

/**
 * Checks if the initialization is complete.
 *
 */
private void checkInit() throws IOException {
  if (!initialized) {
    if (fileName != null) {
      outputStream = new PrintWriter(new OutputStreamWriter(
        new FileOutputStream(fileName), charset));
    }
    initialized = true;
  }
}

/**
 * Clears all buffers for the current writer and causes any buffered data to
 * be written to the underlying device.
 *
 */
public void flush() {
  outputStream.flush();
}

/**
 * Closes and releases all related resources.
 *
 */
public void close() {
  if (!closed) {
    close(true);
    closed = true;
  }
}

/**
 * Closes the writer and releases all related resources.
 *
 */
private void close(boolean closing) {
  if (closing) {
charset = null;
}

try {
if (initialized) {
outputStream.close();
}
} catch (Exception e) {
// just eat the exception
}

outputStream = null;
closed = true;
}
}

/**
 *
 */
private void checkClosed() throws IOException {
if (closed) {
throw new IOException("This instance of the CsvWriter class has already been closed.");
}
}

/**
 *
 */
protected void finalize() {
close(false);
}

private class Letters {
public static final char LF = '\n';

public static final char CR = '\r';

public static final char QUOTE = '"';

public static final char COMMA = ',';

public static final char SPACE = ' ';

public static final char TAB = '	';

public static final char POUND = '#';
public static final char BACKSLASH = '\';

public static final char NULL = '\0';
}

private class UserSettings {
// having these as publicly accessible members will prevent
// the overhead of the method call that exists on properties
public char TextQualifier;
public boolean UseTextQualifier;
public char Delimiter;
public char RecordDelimiter;
public char Comment;
public int EscapeMode;
public boolean ForceQualifier;

public UserSettings() {
    TextQualifier = Letters.QUOTE;
    UseTextQualifier = true;
    Delimiter = Letters.COMMA;
    RecordDelimiter = Letters.NULL;
    Comment = Letters.POUND;
    EscapeMode = ESCAPE_MODE_DOUBLED;
    ForceQualifier = false;
}
}

public static String replace(String original, String pattern, String replace) {
    final int len = pattern.length();
    int found = original.indexOf(pattern);

    if (found > -1) {
        StringBuffer sb = new StringBuffer();
        int start = 0;

        while (found != -1) {
            sb.append(original.substring(start, found));
            sb.append(replace);
            start = found + len;
            found = original.indexOf(pattern, start);
        }
    }
sb.append(original.substring(start));

return sb.toString();
} else {
return original;
}
}

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*/
/**
* Gets whether the transport represents a confidential connection (e.g. an SSL connection).
* @return whether the transport represents a confidential connection
*/
/**
* Sets whether the transport represents a confidential connection.
* @param isConfidential whether the transport represents a confidential connection
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* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-
jar/org/opensaml/ws/transport/http/HTTPTransport.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-
jar/org/opensaml/ws/transport/http/HTTPInTransport.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-
jar/org/opensaml/ws/transport/OutTransport.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-
jar/org/opensaml/ws/message/MessageContext.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-
jar/org/opensaml/ws/security/provider/MandatoryIssuerRule.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-
jar/org/opensaml/ws/security/provider/MandatoryAuthenticatedMessageRule.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-
jar/org/opensaml/ws/message/decoder/MessageDecodingException.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-
jar/org/opensaml/ws/transport/InTransport.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-
jar/org/opensaml/ws/transport/TransportException.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-
jar/org/opensaml/ws/security/provider/CertificateNameOptions.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-
jar/org/opensaml/ws/message/handler/HandlerException.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-
jar/org/opensaml/ws/transport/OutTransport.java

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  */
/**
  * Indicates whether this encoder, given the current message context, provides end-to-end message confidentiality.
  *
  * @param messageContext the current message context
  *
* @return true if the encoder provides end-to-end message confidentiality, false if not
* @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its
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* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/util/resource/Resource.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/util/storage/StorageService.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/util/resource/ResourceChangeListener.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/util/resource/ResourceChangeListener.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/util/resource/ResourceException.java

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* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/ws/wsfed/WSFedConstants.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/ws/wsfed/impl/AddressMarshaller.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/ws/wsfed/impl/AddressUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/ws/wsfed/impl/RequestSecurityTokenResponseUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/ws/wsfed/WSFedObject.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/ws/soap/client/SOAPClient.java

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* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources.jar/org/opensaml/ws/wsfed/RequestSecurityTokenResponse.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources.jar/org/opensaml/ws/wsfed/impl/RequestSecurityTokenResponseBuilder.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources.jar/org/opensaml/ws/wsfed/impl/EndPointReferenceBuilder.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources.jar/org/opensaml/ws/wsfed/impl/EndPointReferenceMarshaller.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources.jar/org/opensaml/ws/wsfed/impl/RequestedSecurityTokenUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources.jar/org/opensaml/ws/wsfed/impl/AddressBuilder.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources.jar/org/opensaml/ws/wsfed/impl/RequestedSecurityTokenBuilder.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources.jar/org/opensaml/ws/wsfed/impl/RequestedSecurityTokenImpl.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources.jar/org/opensaml/ws/wsfed/impl/AppliesToBuilder.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources.jar/org/opensaml/ws/wsfed/impl/AppliesToUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources.jar/org/opensaml/ws/wsfed/impl/AppliesToMarshaller.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources.jar/org/opensaml/ws/soap/client/SOAPMessageContext.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources.jar/org/opensaml/ws/soap/client/http/HttpSOAPRequestParameters.java
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*/opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/ws/soap/soap11/impl/HeaderImpl.java
*/opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/ws/security/SecurityPolicy.java
*/opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/ws/soap/common/AbstractExtensibleSOAPObject.java
*/opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/ws/message/decoder/MessageDecoder.java
*/opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/ws/soap11/impl/FaultMarshaller.java
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  jar/org/opensaml/util/resource/HttpResource.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-
  jar/org/opensaml/util/resource/FileBackedHttpResource.java
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  jar/org/opensaml/ws/soap12/RelayBearing.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-
  jar/org/opensaml/ws/message/handler/BasicHandlerChain.java
* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-
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* /opt/ws_local/PERMITS_SQL/1017018283_1594218746.64/0/openws-1-4-2-1-sources-jar/org/opensaml/ws/wsaddressing/impl/MessageIDImpl.java

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<html><body><p>

The OASIS Web Services Security: SOAP Message Security 1.1 (WS-Security 2004) specification describes enhancements to SOAP messaging to provide message integrity and confidentiality. This specification also provides a general-purpose mechanism for associating security tokens with message content.

The security token profiles currently supported are:

- [Web Services Security UsernameToken Profile 1.1](http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-UsernameTokenProfile.pdf)
- [Web Services Security: SAML Token Profile 1.1](http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-SAMLTokenProfile.pdf)
- [Web Services Security X.509 Certificate Token Profile 1.1](http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-x509TokenProfile.pdf)
- [Web Services Security Kerberos Token Profile 1.1](http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-KerberosTokenProfile.pdf)

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  Video4Linux interface and 2.1.x kernel adaptation

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ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and it's recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaeschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code, the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc’s for the TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas ‘randy’ Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies
Taylor Jacob <rtjacob@earthlink.net>  
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>  
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>  
for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
line to the DVB mailing list)

/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)  
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)  
*  
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.  
* http://www.hypermall.com/  
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY  
* interrupts us (except possibly for removal/insertion of the cable?)  
* 10/4/97 - began heavy inline documentation of the code. Corrected typos  
* and spelling mistakes.  
* 10/5/97 - added code to handle PHY interrupts, disable PHY on  
* loss of link, and correctly re-enable PHY when link is  
* re-established. (put back CFG_PHYIE)  
*  
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.  
*  
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997  
*  
* Linux driver for the IDT77201 NICStAR PCI ATM controller.  
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;  
* see init_nicstar() for PHY initialization to change this. This driver  
* expects the Linux ATM stack to support scatter-gather lists  
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.  
*  
* Implementing minimal-copy of received data:  
* IDT always receives data into a small buffer, then large buffers  
* as needed. This means that data must always be copied to create  
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
* Fix is simple: make large buffers large enough to hold entire  
* SDU, and leave <small_buffer_data> bytes empty at the start. Then  
* copy small buffer contents to head of large buffer.  
* Trick is to avoid fragmenting Linux, due to need for a lot of large  
* buffers. This is done by 2 things:  
* 1) skb->destructor / skb->atm.recycle_buffer  
* combined, allow nicstar_free_rx_skb to be called to  
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/ThrowsAdvice.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/framework/adapter/ThrowsAdviceInterceptor.java
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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
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* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
* /opt/ws_local/PERMITS_SQL/1068640167_1594426188.78/0/spring-aop-3-1-4-release-sources-jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java
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1.965 direct-fb 1.4.5

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com) *
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc. *
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?) *
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes. *
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE) *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only. *
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 $Revision: 1.1 $ $Date: 1999/08/20 11:00:11 $ *
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller. *
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155; *
 * see init_nicstart() for PHY initialization to change this. This driver expects the Linux ATM stack to support scatter-gather lists *
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push. *
 *
 * Implementing minimal-copy of received data: *
 * IDT always receives data into a small buffer, then large buffers as needed. This means that data must always be copied to create the linear buffer needed by most non-ATM protocol stacks (e.g. IP) *
 * Fix is simple: make large buffers large enough to hold entire SDU, and leave <small_buffer_data> bytes empty at the start. Then copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*      combined, allow nicstar_free_rx_skb to be called to
*      recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
*/

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Version 2, June 1991

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1.983 oauth 20100527

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***************************************************************************/

* @author:  zhang
* @version:    $Revision$
* @created:    Apr 24, 2009
*
* Description: A KeySpec for PKCS#1 encoded RSA private key
*
******************************************************************************/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1016929268_1591896924.34/0/oauth-20100527-sources-
  jar/net/oauth/signature/pem/PKCS1EncodedKeySpec.java
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* /opt/ws_local/PERMITS_SQL/1016929268_1591896924.34/0/oauth-20100527-sources-jar/net/oauth/signature/HMAC_SHA1.java
* /opt/ws_local/PERMITS_SQL/1016929268_1591896924.34/0/oauth-20100527-sources-jar/net/oauth/signature/PLAINTEXT.java
* /opt/ws_local/PERMITS_SQL/1016929268_1591896924.34/0/oauth-20100527-sources-jar/net/oauth/ConsumerProperties.java
* /opt/ws_local/PERMITS_SQL/1016929268_1591896924.34/0/oauth-20100527-sources-jar/net/oauth/OAuth.java
* /opt/ws_local/PERMITS_SQL/1016929268_1591896924.34/0/oauth-20100527-sources-jar/net/oauth/signature/OAuthSignatureMethod.java
* /opt/ws_local/PERMITS_SQL/1016929268_1591896924.34/0/oauth-20100527-sources-jar/net/oauth/OAuthProblemException.java
* /opt/ws_local/PERMITS_SQL/1016929268_1591896924.34/0/oauth-20100527-sources-jar/net/oauth/OAuthAccessor.java
* /opt/ws_local/PERMITS_SQL/1016929268_1591896924.34/0/oauth-20100527-sources-jar/net/oauth/OAuthServiceProvider.java

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******************************************************************************
*
* @author:     zhang
* @version:    $Revision$
* @created:    Apr 24, 2009
*
* Description: A class to decode PEM files
*
******************************************************************************/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1016929268_1591896924.34/0/oauth-20100527-sources-
  jar/net/oauth/signature/pem/PEMReader.java
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  jar/net/oauth/signature/RSA_SHA1.java

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*/
/** Overrides binding confidentiality. */
/**
* Returns confidentiality override flag.
* @return true iff the encoder cannot provide confidentiality
*/
/**
* Sets confidentiality override flag.
* @param flag override flag
*/

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* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-
jar/org/opensaml/saml2/binding/encoding/HandlerChainAwareHTTPSOAP11Encoder.java

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* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/impl/ObligationTypeImplBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/GetComplete.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/impl/RoleDescriptorUnmarshaller.java
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* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/impl/PDPDescriptorBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/impl/IDPSSODescriptorBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/Status.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/BaseIDUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/AttributeDesignatorBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/RequesterIDBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/Attribute.java
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* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/impl/AttributeDesignatorTypeUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/ctx/impl/RequestTypeImplBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/RequesterIDUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml1/core/impl/NameIdentifier.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/binding/encoding/BaseSAML2MessageEncoder.java
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* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/ScopingUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/impl/FunctionTypeImplBuilder.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/impl/AuthnAuthorityDescriptorImpl.java
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* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/RequestedAuthnContextImpl.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/profile/saml/impl/XACMLPolicyStatementTypeImpl.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/validator/AssertionIDRefSchemaValidator.java
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* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/impl/AdditionalMetadataLocationImpl.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/metadata/Company.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml1/core/impl/AdviceMarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/SubjectUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml1/binding/artifact/SAML1ArtifactType0001.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml2/core/impl/NewIDUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/saml1/core/impl/ConditionsMarshaller.java
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* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/profile/saml/ReferencedPoliciesType.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources-jar/org/opensaml/xacml/policy/impl/CombinerParameterTypeImplBuilder.java
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* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources.jar/org/opensaml/xacml/policy/impl/AttributeSelectorTypeUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1001157940_1594523833.97/0/opensaml-2-5-1-sources.jar/org/opensaml/xacml/ctx/impl/SubjectTypeImplBuilder.java
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@end enumerate
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@item
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@item
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@enumerate a
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Accompany the work with the complete corresponding
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable `work that
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@item
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version that the work was made with.

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Verify that the user has already received a copy of these
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Version 3, 29 June 2007

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to
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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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Theodore Ts'o
23-June-2007

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1.999 oro 2.0.7

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Michael Davey <michael.davey at coderage.org> fixed some documentation and added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <harald at ontopia.net> updated MatchActionProcessor.processMatches() to accommodate character encodings.
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/* * and/or the "littlecms" library by Marti Maria (depending on the * */
/* * inclusion of support for JNG and Full-Color-Management respectively. * */
/* * This library's function is primarily to read and display MNG * */
/* * animations. It is not meant as a full-featured image-editing * */
/* * component! It does however offer creation and editing functionality * */
/* * at the chunk level. * */
/* * (future modifications may include some more support for creation * */
/* * and or editing) * */
/* *                                                                        */

MNGPLG
A simple browser plug-in for the MNG image/animation file format.

By Jason Summers <jason1@pobox.com>
Web site: <http://pobox.com/~jason1/mngplg/>

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We
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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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The actual classes of The Simple API for CSS (SAC) came from:
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The original code is FirewallControl.pas, released April 16, 2007.

The initial developer of the original code is Rainer Budde (http://www.speed-soft.de).

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1.1021 asm 3_3

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1.1022 at 3.1.10 48.el6

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   * loss of link, and correctly re-enable PHY when link is
   * re-established. (put back CFG_PHYIE)
   *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
   *
   * Linux driver for the IDT77201 NICStar PCI ATM controller.
   * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
   * see init_nicstar() for PHY initialization to change this. This driver
   * expects the Linux ATM stack to support scatter-gather lists
   * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
   *
   * Implementing minimal-copy of received data:
   * IDT always receives data into a small buffer, then large buffers
   * as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
  SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
  buffers. This is done by 2 things:
*   1) skb->destructor / skb->atm.recycle_buffer
*       combined, allow nicstar_free_rx_skb to be called to
*       recycle large data buffers
*   2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
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* M. Welsh, 6 July 1996
* *
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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html

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GnuTLS  http://www.gnultls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl  http://www.yassl.com/

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c-ares  http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib  http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos  http://web.mit.edu/kerberos/www/dist/

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal  http://www.pdc.kth.se/heimdal/
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GNU GSS http://www.gnu.org/software/gss/

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL
1.1039 atk 1.30.0

1.1039.1 Available under license:

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[This is the first released version of the library GPL. It is
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.1053 commons-validator 1.1.4
1.1053.1 Available under license:

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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Msg.java,v 1.12.2.2
 * 2004/11/11 15:32:03 niallp Exp $
 * $Revision: 1.12.2.2 $
 * $Date: 2004/11/11 15:32:03 $
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* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-jar/org/apache/commons/validator/Msg.java

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 * $Revision: 1.29 $
 */
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* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-  
  jar/org/apache/commons/validator/GenericValidator.java  

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*/  
* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Field.java,v 1.31.2.3  
  2004/11/11 15:32:03 niallp Exp $  
* $Revision: 1.31.2.3 $  
* $Date: 2004/11/11 15:32:03 $  
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* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-  
  jar/org/apache/commons/validator/Field.java
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Found in path(s):
* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-
  jar/org/apache/commons/validator/Arg.java

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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/util/Flags.java,v 1.8 2004/02/21 17:10:30 rleland Exp $
 * $Revision: 1.8 $
 * $Date: 2004/02/21 17:10:30 $
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* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3.jar/org/apache/commons/validator/util/Flags.java
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* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3.jar/org/apache/commons/validator/UrlValidator.java
No license file was found, but licenses were detected in source scan.

/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Form.java,v 1.14.2.1
2004/06/22 02:24:38 husted Exp $
 * $Revision: 1.14.2.1 $
 * $Date: 2004/06/22 02:24:38 $
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* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-
  jar/org/apache/commons/validator/Form.java
No license file was found, but licenses were detected in source scan.

/ *
* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/ValidatorResult.java,v
  1.11 2004/02/21 17:10:29 rleland Exp $
* $Revision: 1.11 $
* $Date: 2004/02/21 17:10:29 $
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* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-
  jar/org/apache/commons/validator/ValidatorResult.java
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/ *
* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Attic/Constant.java,v
  1.10 2004/02/21 17:10:29 rleland Exp $
* $Revision: 1.10 $
* $Date: 2004/02/21 17:10:29 $
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Found in path(s):
* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-jar/org/apache/commons/validator/Constant.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/util/ValidatorUtils.java,v 1.7.2.1 2004/06/22 02:24:38 husted Exp $
* $Revision: 1.7.2.1 $
* $Date: 2004/06/22 02:24:38 $
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Found in path(s):
* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-jar/org/apache/commons/validator/util/ValidatorUtils.java
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* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-
jar/org/apache/commons/validator/ValidatorException.java
No license file was found, but licenses were detected in source scan.

/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/ValidatorResults.java,v 1.10 2004/02/21 17:10:29 rleland Exp $
 * $Revision: 1.10 $
 * $SDate: 2004/02/21 17:10:29 $
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jar/org/apache/commons/validator/ValidatorResults.java
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jar/org/apache/commons/validator/Validator.java
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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/ValidatorAction.java,v
1.20.2.1 2004/04/13 05:49:22 rleland Exp $
 * $Revision: 1.20.2.1 $
 * $Date: 2004/04/13 05:49:22 $
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jar/org/apache/commons/validator/ValidatorAction.java
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02:24:38 husted Exp $
 * $Revision: 1.14.2.1 $
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/*
* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/FormSet.java,v 1.15
2004/02/21 17:10:29 rleland Exp $
* $Revision: 1.15 $
* $Date: 2004/02/21 17:10:29 $
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  jar/org/apache/commons/validator/FormSet.java
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/*
* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/ValidatorResources.java,v 1.30.2.2 2004/06/22 02:24:38 husted Exp $ 
* $Revision: 1.30.2.2 $ 
* $Date: 2004/06/22 02:24:38 $ 
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* $Revision: 1.16 $ 
* $Date: 2004/02/21 17:10:29 $ 
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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Var.java,v 1.11
2004/02/21 17:10:29 rleland Exp $
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  jar/org/apache/commons/validator/Var.java
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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Attic/ValidatorResourcesInitializer.java,v 1.22
2004/02/21 17:10:29 rleland Exp $
* $Revision: 1.22 $
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1.1054 libdrm 2.4.23
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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-IzK7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/xf86drmMode.h
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/* mga_drm.h -- Public header for the Matrox g200/g400 driver -*- linux-c -*.-
* Created: Tue Jan 25 01:50:01 1999 by jhartmann@precisioninsight.com
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/* dristat.c --
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/* xf86drmHash.c -- Small hash table support for integer -> integer mapping
* Created: Sun Apr 18 09:35:45 1999 by faith@precisioninsight.com
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* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward implementation of a fixed-sized
* hash table using self-organizing linked lists [Knuth73, pp. 398-399] for
* collision resolution. There are two potentially interesting things
* about this implementation:
*
* 1) The table is power-of-two sized. Prime sized tables are more
* traditional, but do not have a significant advantage over power-of-two
* sized table, especially when double hashing is not used for collision
* resolution.
*
* 2) The hash computation uses a table of random integers [Hanson97,
* pp. 39-41].
*
* FUTURE ENHANCEMENTS
*
* With a table size of 512, the current implementation is sufficient for a
* few hundred keys. Since this is well above the expected size of the
* tables for which this implementation was designed, the implementation of
* dynamic hash tables was postponed until the need arises. A common (and
* naive) approach to dynamic hash table implementation simply creates a
* new hash table when necessary, rehashes all the data into the new table,
* and destroys the old table. The approach in [Larson88] is superior in
* two ways: 1) only a portion of the table is expanded when needed,
* distributing the expansion cost over several insertions, and 2) portions
* of the table can be locked, enabling a scalable thread-safe
* implementation.
*
* REFERENCES
*
* [Hanson97] David R. Hanson. C Interfaces and Implementations:
* Techniques for Creating Reusable Software. Reading, Massachusetts:
* Addison-Wesley, 1997.
*
* [Knuth73] Donald E. Knuth. The Art of Computer Programming. Volume 3:
*
* [Larson88] Per-Ake Larson. "Dynamic Hash Tables". CACM 31(4), April
* 1988, pp. 446-457.
*
*/

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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/xf86drmHash.c
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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/radeon/radeon_bo.c
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/radeon/radeon_bo_gem.c
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/nouveau/nouveau_reloc.c
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/nouveau/nouveau_reloc.h

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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/nouveau/nouveau_reloc.c

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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/getstats.c
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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/openclose.c
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/getversion.c
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/intel/intel_bufmgr.c
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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/drmtest.c
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/updatedraw.c

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Gareth Hughes <gareth@valinux.com>
Keith Whitwell <keith@tungstengraphics.com>

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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/gem_mmap.c
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/intel/intel_bufmgr_priv.h
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/intel/intel_bufmgr.h
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/intel/intel_bufmgr_priv.h
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/intel/intel_bufmgr.h
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/intel/intel_bufmgr.h

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/* xf86drmRandom.c -- "Minimal Standard" PRNG Implementation
 * Created: Mon Apr 19 08:28:13 1999 by faith@precisioninsight.com
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 *
 * Authors: Rickard E. (Rik) Faith <faith@valinux.com>
 *
 * DESCRIPTION
 *
 * This file contains a simple, straightforward implementation of the Park
 * & Miller "Minimal Standard" PRNG [PM88, PMS93], which is a Lehmer
 * multiplicative linear congruential generator (MLCG) with a period of
 * 2^31-1.
 *
 * This implementation is intended to provide a reliable, portable PRNG
 * that is suitable for testing a hash table implementation and for
* implementing skip lists.

* FUTURE ENHANCEMENTS

* If initial seeds are not selected randomly, two instances of the PRNG can be correlated. [Knuth81, pp. 32-33] describes a shuffling technique that can eliminate this problem.

* If PRNGs are used for simulation, the period of the current implementation may be too short. [LE88] discusses methods of combining MLCGs to produce much longer periods, and suggests some alternative values for A and M. [LE90 and Sch92] also provide information on long-period PRNGs.

* REFERENCES


*/

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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-ODN83yGs/libdrm-2.4.23/xf86drmRandom.c

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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/libkms/api.c
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/libkms/internal.h
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/libkms/linux.c
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/kmstest/main.c
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/libkms/nouveauc
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/include/drm/vmwgfx_drm.h
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/libkms/vmwgfx.c

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archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/nouveau/nouveau_drmif.h
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AC_PREREQ(2.60)
AC_INIT([libdrm], 2.4.23, [dri-devel@lists.sourceforge.net], libdrm)
AC_USE_SYSTEM_EXTENSIONS
AC_CONFIG_SRCDIR([Makefile.am])
AM_INIT_AUTOMAKE([dist-bzip2])
AM_CONFIG_HEADER([config.h])

AC_DISABLE_STATIC
AC_PROG_LIBTOOL
AC_PROG_CC

AC_HEADER_STDC
AC_SYS_LARGEFILE
AC_FUNC_ALLOCA

# Enable quiet compiles on automake 1.11.

m4_ifdef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])

PKG_CHECK_MODULES(PTHREADSTUBS, pthread-stubs)
AC_SUBST(PTHREADSTUBS_CFLAGS)
AC_SUBST(PTHREADSTUBS_LIBS)

pkgconfigdir=${libdir}/pkgconfig
AC_SUBST(pkgconfigdir)
AC_ARG_ENABLE(udev,	AS_HELP_STRING([--enable-udev],
[Enable support for using udev instead of mknod (default: disabled)],
[UDEV=$enableval], [UDEV=no])

AC_ARG_ENABLE(libkms,
    AS_HELP_STRING([--disable-libkms],
    [Disable KMS mm abstraction library (default: auto)],
    [LIBKMS=$enableval], [LIBKMS=auto])

AC_ARG_ENABLE(intel,
    AS_HELP_STRING([--disable-intel],
    [Enable support for intel's KMS API (default: auto)],
    [INTEL=$enableval], [INTEL=auto])

AC_ARG_ENABLE(radeon,
    AS_HELP_STRING([--disable-radeon],
    [Enable support for radeon's KMS API (default: auto)],
    [RADEON=$enableval], [RADEON=auto])

AC_ARG_ENABLE(vmwgfx-experimental-api,
    AS_HELP_STRING([--enable-vmwgfx-experimental-api],
    [Install vmwgfx's experimental kernel API header (default: disabled)],
    [VMWGFX=$enableval], [VMWGFX=no])

AC_ARG_ENABLE(nouveau-experimental-api,
    AS_HELP_STRING([--enable-nouveaux-experimental-api],
    [Enable support for nouveau's experimental API (default: disabled)],
    [NOUVEAUX=$enableval], [NOUVEAUX=no])
dnl ===============================================================
dacl check compiler flags
AC_DEFUN([LIBDRM_CC_TRY_FLAG], [
   AC_MSG_CHECKING([whether $CC supports $1])
])

libdrm_save_CFLAGS="$CFLAGS"
CFLAGS="$CFLAGS $1"

AC_COMPILE_IFELSE([ ], [libdrm_cc_flag=yes], [libdrm_cc_flag=no])
CFLAGS="$libdrm_save_CFLAGS"

if test "x$libdrm_cc_flag" = "xyes"; then
   ifelse($2, ; ; $2)
else
   ifelse($3, ; ; $3)
fi
AC_MSG_RESULT([$libdrm_cc_flag])
]

dnl We use clock_gettime to check for timeouts in drmWaitVBlank

AC_CHECK_FUNCS([clock_gettime], [CLOCK_LIB=],
   [AC_CHECK_LIB([rt], [clock_gettime], [CLOCK_LIB=-lrt],
      [AC_MSG_ERROR([Couldn't find clock_gettime]))])]
AC_SUBST([CLOCK_LIB])

dnl Use lots of warning flags with with gcc and compatible compilers

dnl Note: if you change the following variable, the cache is automatically
dnl skipped and all flags rechecked. So there's no need to do anything
dnl else. If for any reason you need to force a recheck, just change
dnl MAYBE_WARN in an ignorable way (like adding whitespace)

MAYBE_WARN="-Wall -Wextra \

# invalidate cached value if MAYBE_WARN has changed
if test "x$libdrm_cv_warn_maybe" != "x$MAYBE_WARN"; then
   unset libdrm_cv_warn_cflags
fi
AC_CACHE_CHECK([for supported warning flags], libdrm_cv_warn_cflags, [
  echo
  WARN_CFLAGS=""
]

# Some warning options are not supported by all versions of
# gcc, so test all desired options against the current
# compiler.
#
# Note that there are some order dependencies
# here. Specifically, an option that disables a warning will
# have no net effect if a later option then enables that
# warnings, (perhaps implicitly). So we put some grouped
# options (-Wall and -Wextra) up front and the -Wno options
# last.

for W in $MAYBE_WARN; do
LIBDRM_CC_TRY_FLAG([$W], [WARN_CFLAGS="$WARN_CFLAGS $W"])
done

libdrm_cv_warn_cflags=$WARN_CFLAGS
libdrm_cv_warn_maybe=$MAYBE_WARN

AC_MSG_CHECKING([which warning flags were supported])]
WARN_CFLAGS="$libdrm_cv_warn_cflags"

if test "x$UDEV" = xyes; then
AC_DEFINE(UDEV, 1, [Have UDEV support])
fi

AC_CANONICAL_HOST
if test "x$LIBKMS" = xauto ; then
case $host_os in
  linux*)		LIBKMS="yes" ;;
  *)		LIBKMS="no" ;;
esac
fi

AM_CONDITIONAL(HAVE_LIBKMS, [test "x$LIBKMS" = xyes])

AM_CONDITIONAL(HAVE_VMWGFX, [test "x$VMWGFX" = xyes])
if test "x$VMWGFX" = xyes; then
AC_DEFINE(HAVE_VMWGFX, 1, [Have vmwgfx kernel headers])
fi

AM_CONDITIONAL(HAVE_NOUVEAU, [test "x$NOUVEAU" = xyes])
if test "x$NOUVEAU" = xyes; then
AC_DEFINE(HAVE_NOUVEAU, 1, [Have nouveau (nvidia) support])
PKG_CHECK_MODULES(CAIRO, cairo, [HAVE_CAIRO=yes], [HAVE_CAIRO=no])
if test "x$HAVE_CAIRO" = xyes; then
    AC_DEFINE(HAVE_CAIRO, 1, [Have cairo support])
fi
AM_CONDITIONAL(HAVE_CAIRO, [test "x$HAVE_CAIRO" = xyes])

# For enumerating devices in test case
PKG_CHECK_MODULES(LIBUDEV, libudev, [HAVE_LIBUDEV=yes], [HAVE_LIBUDEV=no])
if test "x$HAVE_LIBUDEV" = xyes; then
    AC_DEFINE(HAVE_LIBUDEV, 1, [Have libudev support])
fi
AM_CONDITIONAL(HAVE_LIBUDEV, [test "x$HAVE_LIBUDEV" = xyes])

if test "x$INTEL" != "xno" -o "x$RADEON" != "xno"; then
    # Check for atomic intrinsics
    AC_CACHE_CHECK([for native atomic primitives], drm_cv_atomic_primitives,
    [drm_cv_atomic_primitives="none"]
    AC_TRY_LINK([
        int atomic_add(int i) { return __sync_fetch_and_add (&i, 1); }
        int atomic_cmpxchg(int i, int j, int k) { return __sync_val_compare_and_swap (&i, j, k); }
    ], [],
    drm_cv_atomic_primitives="Intel"
    )
    if test "x$drm_cv_atomic_primitives" = "xnone"; then
        AC_CHECK_HEADER([atomic_ops.h], drm_cv_atomic_primitives="libatomic-ops")
    fi

    # atomic functions defined in <atomic.h> & libc on Solaris
    if test "x$drm_cv_atomic_primitives" = "xnone"; then
        AC_CHECK_FUNC([atomic_cas_uint],
        drm_cv_atomic_primitives="Solaris")
    fi

    )
    if test "x$drm_cv_atomic_primitives" = xIntel; then
        AC_DEFINE(HAVE_LIBDRM_ATOMIC_PRIMITIVES, 1,
        [Enable if your compiler supports the Intel __sync_* atomic primitives])
    fi
    if test "x$drm_cv_atomic_primitives" = "xlibatomic-ops"; then
        AC_DEFINE(HAVE_LIB_ATOMIC_OPS, 1, [Enable if you have libatomic-ops-dev installed])
    fi
    if test "x$drm_cv_atomic_primitives" = "xnone"; then

if test "x$INTEL" != "xauto"; then
    if test "x$INTEL" != "xno"; then
        AC_MSG_ERROR([libdrm_intel depends upon atomic operations, which were not found for your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those, disable support for Intel GPUs by passing --disable-intel to ./configure])
        fi
    else
        AC_MSG_WARN([Disabling libdrm_intel. It depends on atomic operations, which were not found for your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.])
        INTEL=no
        fi
    if test "x$RADEON" != "xauto"; then
        if test "x$RADEON" != "xno"; then
            AC_MSG_ERROR([libdrm_radeon depends upon atomic operations, which were not found for your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those, disable support for Radeon support by passing --disable-radeon to ./configure])
            fi
        else
            AC_MSG_WARN([Disabling libdrm_radeon. It depends on atomic operations, which were not found for your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.])
            RADEON=no
            fi
    else
        if test "x$INTEL" != "xno"; then
            INTEL=yes
            fi
        if test "x$RADEON" != "xno"; then
            RADEON=yes
            fi
        fi
    fi

AM_CONDITIONAL(HAVE_INTEL, [test "x$INTEL" != "xno"])
AM_CONDITIONAL(HAVE_RADEON, [test "x$RADEON" != "xno"])
AC_ARG_WITH([kernel-source],
    [AS_HELP_STRING([--with-kernel-source],
        [specify path to linux kernel source]),
        [kernel_source="$with_kernel_source"])
AC_SUBST(kernel_source)
AC_SUBST(WARN_CFLAGS)
AC_OUTPUT(
    Makefile
    libkms/Makfile
    libkms/libkms.pc
    intel/Makfile
)
intel/libdrm_intel.pc
raadeon/Makefile
raadeon/libdrm_radeon.pc
nouveau/Makefile
nouveau/libdrm_nouveau.pc
tests/Makefile
tests/modetest/Makefile
tests/kmstest/Makefile
tests/vbltest/Makefile
include/Makefile
include/drm/Makefile
libdrm.pc)

>&2 echo "" >&2 echo "$PACKAGE_STRING will be compiled with:" >&2 echo "" >&2 echo "   libkms $LIBKMS" >&2 echo "   Intel API $INTEL" >&2 echo "   vmwgfx API $VMWGFX" >&2 echo "   Radeon API $RADEON" >&2 echo "   Nouveau API $NOUVEAU" >&2 echo ""

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/configure.ac
No license file was found, but licenses were detected in source scan.

/* xf86drmSL.c -- Skip list support
 * Created: Mon May 10 09:28:13 1999 by faith@precisioninsight.com
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Found in path(s):
* /opt/cola/permits/1102738801_1610534739.81/0/multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.c
* /opt/cola/permits/1102738801_1610534739.81/0/multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.h

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 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */

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 * This file contains image transformation routines and other utility code
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* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
* This implementation is based on an algorithm described in
* C. Loeffler, A. Lijtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
* We also provide FDCT routines with various input sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers (pass 2) and/or final/initial
* shifting.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
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* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*/

Found in path(s):
*/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jddctmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jidctfst.c
No license file was found, but licenses were detected in source scan.

/ *
* jcmarker.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcmarker.c
No license file was found, but licenses were detected in source scan.

/ *
* wrdle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).

* These routines may need modification for non-Unix environments or
  * specialized applications. As they stand, they assume output to
  * an ordinary stdio stream.

* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrrle.c
No license file was found, but licenses were detected in source scan.

/*
* jcmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
  * and inter-pass control (determining the number of passes and the work
  * to be done in each pass).
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
* jdmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
  * post-processor; it holds downsampled data in the JPEG colorspace.
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmainct.c

No license file was found, but licenses were detected in source scan.

/ *
* jdmerge.c
*

* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains code for merged upsampling/color conversion.
* *
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
* *
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* \[ R = Y + K1 \times Cr \]
* \[ G = Y + K2 \times Cb + K3 \times Cr \]
* \[ B = Y + K4 \times Cb \]
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
* *
* This file currently provides implementations for the following cases:
* YCC => RGB color conversion only (YCbCr or BG_YCC).
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmerge.c

No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software
============================================
This distribution contains the ninth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJK is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
======================
This file contains the following sections:

OVERVIEW General description of JPEG and the IJK software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJK releases.

Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJK software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJK files.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information

Open Source Used In Cisco Unified Communication Manager 12.0.1.SU5 12824
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
==========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.
LEGAL ISSUES

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.
The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES
==========

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.iijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.
ARCHIVE LOCATIONS
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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsrc9c.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
================

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.
Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijr.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS
================

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions.

One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above
and violates basic C programming properties.
We have no sympathy for the release of misleading, incorrect and illegal
distributions derived from obsolete code bases.
Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and
legal right to foreclose on certain standardization bodies and other
institutions or corporations that knowingly perform substantial and
systematic deceptive acts and practices, fraud, theft, and damaging of the
value of the people of this planet without their knowing, willing and
intentional consent.
The titles, ownership, and rights of these institutions and all their assets
are now duly secured and held in trust for the free people of this planet.
People of the planet, on every country, may have a financial interest in
the assets of these former principals, agents, and beneficiaries of the
foreclosed institutions and corporations.
IJG asserts what is: that each man, woman, and child has unalienable value
and rights granted and deposited in them by the Creator and not any one of
the people is subordinate to any artificial principality, corporate fiction
or the special interest of another without their appropriate knowing,
willing and intentional consent made by contract or accommodation agreement.
IJG expresses that which already was.
The people have already determined and demanded that public administration
entities, national governments, and their supporting judicial systems must
be fully transparent, accountable, and liable.
IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame")
is currently prepared and will be published later.

TO DO
=====

Version 9 is the second release of a new generation JPEG standard
to overcome the limitations of the original JPEG specification,
and is the first true source reference JPEG codec.
More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/README
No license file was found, but licenses were detected in source scan.

/*
 * jcparam.c
 */
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcparam.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemdosa.asm
No license file was found, but licenses were detected in source scan.

/*/  
* jpeglib.h
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*/  
* jdpostct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdpostct.c
No license file was found, but licenses were detected in source scan.

//*
* jpegint.h
* *
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpegint.h
No license file was found, but licenses were detected in source scan.

//*
* jcdctmgr.c
* *
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

//*
* ckconfig.c
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*/

No license file was found, but licenses were detected in source scan.

/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */

No license file was found, but licenses were detected in source scan.

/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
 * allocated wide enough to correspond to the desired output width).
 * The caller (the prep controller) is responsible for vertical padding.
 */
The downsampler may request "context rows" by setting need_context_rows
during startup. In this case, the input arrays will contain at least
one row group's worth of pixels above and below the passed-in data;
the caller will create dummy rows at image top and bottom by replicating
the first or last real pixel row.

An excellent reference for image resampling is

The downsampling algorithm used here is a simple average of the source
pixels covered by the output pixel. The hi-falutin sampling literature
refers to this as a "box filter". In general the characteristics of a box
filter are not very good, but for the specific cases we normally use (1:1
and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
nearly so bad. If you intend to use other sampling ratios, you'd be well
advised to improve this code.

A simple input-smoothing capability is provided. This is mainly intended
for cleaning up color-dithered GIF input files (if you find it inadequate,
we suggest using an external filtering program such as pnmconvol). When
enabled, each input pixel P is replaced by a weighted sum of itself and its
eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
where SF = (smoothing_factor / 1024).
Currently, smoothing is only supported for 2h2v sampling factors.

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This file contains routines to read input images in Utah RLE format.
The Utah Raster Toolkit library is required (version 3.1 or later).
These routines may need modification for non-Unix environments or
specialized applications. As they stand, they assume input from
an ordinary stdio stream. They further assume that reading begins
at the start of the file; start_input may need work if the
user interface has already read some data (e.g., to determine that
the file is indeed RLE format).
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
*
cjpeg [options]  inputfile outputfile
*cjpeg [options]  [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
*cjpeg [options]  -outfile outputfile  inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
* jmemdos.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides an MS-DOS-compatible implementation of the system-
* dependent portion of the JPEG memory manager. Temporary data can be
* stored in extended or expanded memory as well as in regular DOS files.
*
* If you use this file, you must be sure that NEED_FAR_POINTERS is defined
* if you compile in a small-data memory model; it should NOT be defined if
* you use a large-data memory model. This file is not recommended if you
* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
* Also, this code will NOT work if struct fields are aligned on greater than
* 2-byte boundaries.
*
* Based on code contributed by Ge' Weijers.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemdos.c
No license file was found, but licenses were detected in source scan.

/ *
* jctrans.c
*
* Copyright (C) 1995-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jctrans.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: FILE LIST

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Here is a road map to the files in the IJG JPEG distribution. The distribution includes the JPEG library proper, plus two application programs ("cjpeg" and "djpeg") which use the library to convert JPEG files to and from some other popular image formats. A third application "jpegtran" uses the library to do lossless conversion between different variants of JPEG. There are also two stand-alone applications, "rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY
================

Include files:

jpeglib.h: JPEG library's exported data and function declarations.
jconfig.h: Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.
jmorecfg.h: Additional configuration declarations; need not be changed for a standard installation.
jerror.h: Declares JPEG library's error and trace message codes.
jinclude.h: Central include file used by all IJG .c files to reference
system include files.
jpegint.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjjpeg/djpeg/etc do use jincludefile.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jincludefile.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jcapimin.c Application program interface: core routines for compression.
jcapistd.c Application program interface: standard compression.
jdapimin.c Application program interface: core routines for decompression.
jdapistd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression and decompression.
jcparam.c Compression parameter setting helper routines.
jctrans.c API and library routines for transcoding compression.
jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.
jcmaster.c Master control: setup and inter-pass sequencing logic.
jcmainct.c Main buffer controller (preprocessor => JPEG compressor).
jcrepct.c Preprocessor buffer controller.
jcoeffct.c Buffer controller for DCT coefficient buffer.
jcolor.c Color space conversion.
jcsample.c Downsampling.
jdctmgr.c DCT manager (DCT implementation selection & control).
jdfdctint.c Forward DCT using slow-but-accurate integer method.
jdfdctlst.c Forward DCT using faster, less accurate integer method.
jdfdctflt.c Forward DCT using floating-point arithmetic.
jchuff.c Huffman entropy coding.
jcarith.c Arithmetic entropy coding.
jcmarker.c JPEG marker writing.
jdatadst.c Data destination managers for memory and stdio output.
Decompression side of the library:

`jdmaster.c`: Master control: determines which other modules to use.
`jdinput.c`: Input controller: controls input processing modules.
`jdmaint.c`: Main buffer controller (JPEG decompressor => postprocessor).
`jdcoeft.c`: Buffer controller for DCT coefficient buffer.
`jdpostct.c`: Postprocessor buffer controller.
`jdmaker.c`: JPEG marker reading.
`jdhuff.c`: Huffman entropy decoding.
`jdarith.c`: Arithmetic entropy decoding.
`jddctmgr.c`: IDCT manager (IDCT implementation selection & control).
`jdctint.c`: Inverse DCT using slow-but-accurate integer method.
`jdcftst.c`: Inverse DCT using faster, less accurate integer method.
`jdcftlt.c`: Inverse DCT using floating-point arithmetic.
`jdsample.c`: Upsampling.
`jdcolor.c`: Color space conversion.
`jdmmerge.c`: Merged upsampling/color conversion (faster, lower quality).
`jquant1.c`: One-pass color quantization using a fixed-spacing colormap.
`jquant2.c`: Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
`jdatasrc.c`: Data source managers for memory and stdio input.

Support files for both compression and decompression:

`jaricom.c`: Tables for common use in arithmetic entropy encoding and decoding routines.
`jerror.c`: Standard error handling routines (application replaceable).
`jmempmgr.c`: System-independent (more or less) memory management code.
`jutils.c`: Miscellaneous utility routines.

`jmempmgr.c` relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

`jmempobs.c`: "No backing store": assumes adequate virtual memory exists.
`jmempansi.c`: Makes temporary files with ANSI-standard routine tmpfile().
`jmempname.c`: Makes temporary files with program-generated file names.
`jmempdos.c`: Custom implementation for MS-DOS (16-bit environment only): can use extended and expanded memory as well as temp files.
`jmempmac.c`: Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use).
On unusual systems you may find it worthwhile to make a special system-dependent memory manager.
Non-C source code files:

jmemdosa.asm80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.
cerror.h Additional error and trace message codes for cjpeg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.
djpeg.c Main program for djpeg.
jpegtran.c Main program for jpegtran.
cdjpeg.c Utility routines used by all three programs.
rdfcolmap.c Code to read a colormap file for djpeg's "-map" switch.
rdswwitch.c Code to process some of cjpeg's more complex switches.
Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdfgif.c GIF file input (now just a stub).
rddppm.c PPM/PGM file input.
rddrle.c Utah RLE file input.
rddtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrdfgif.c GIF file output (a mere shadow of its former self).
wrddppm.c PPM/PGM file output.
wrddrle.c Utah RLE file output.
wrddtarga.c Targa file output.

RDJPGCOM/WRJPGCOM

C source code files:
rdjpgcom.c Stand-alone rdjpgcom application.
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES
================

Documentation (see README for a guide to the documentation files):

README Master documentation file.
*.txt Other documentation files.
*.1 Documentation in Unix man page format.
change.log Version-to-version change highlights.
example.c Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure Unix shell script to perform automatic configuration.
configure.ac Source file for use with Autoconf to generate configure.
ltmain.sh Support scripts for configure (from GNU libtool).
config.guess
config.sub
depcomp
missing
ar-lib
compile
install-sh Install shell script for those Unix systems lacking one.
Makefile.in Makefile input for configure.
Makefile.am Source file for use with Automake to generate Makefile.in.
ckconfig.c Program to generate jconfig.h on non-Unix systems.
jconfig.txt Template for making jconfig.h by hand.
mak* Sample makefiles for particular systems.
jconfig Sample jconfig.h for particular systems.
libjpeg.map Script to generate shared library with versioned symbols.
libjpeg.pc.inlibjpeg.pc pkg-config file input for configure.
aclocal.m4 M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test* Source and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):
*/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/filelist.txt
No license file was found, but licenses were detected in source scan.

**IJG JPEG LIBRARY: SYSTEM ARCHITECTURE**

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For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an array of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downsampled image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would
otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform
  JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple
  command-line user interface and I/O routines for several uncompressed image
  formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended
sequential, and progressive DCT processes. The library does not support the
hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines,
and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general
rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also
provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module.
The support code (memory management & error handling) can be shared with
the compression half of the library.

There may be several implementations of each of these elements, particularly
in the decompressor, where a wide range of speed/quality tradeoffs is very
useful. It must be understood that some of the best speedups involve
merging adjacent steps in the pipeline. For example, upsampling, color space
conversion, and color quantization might all be done at once when using a
low-quality ordered-dither technique. The system architecture is designed to
allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries)
as a preprocessing/postprocessing function, even though the JPEG spec includes
it in compression/decompression. We do this because downsampling/upsampling
can be simplified a little if they work on padded data: it's not necessary to
have special cases at the right and bottom edges. Therefore the interface
buffer is always an integral number of blocks wide and high, and we expect
compression preprocessing to pad the source data properly. Padding will occur
only to the next block (block_size-sample) boundary. In an interleaved-scan
situation, additional dummy blocks may be used to fill out MCUs, but the MCU
assembly and disassembly logic will create or discard these blocks internally.
(This is advantageous for speed reasons, since we avoid DCTing the dummy
blocks. It also permits a small reduction in file size, because the
compressor can choose dummy block contents so as to minimize their size
in compressed form. Finally, it makes the interface buffer specification
independent of whether the file is actually interleaved or not.)
Applications that wish to deal directly with the downsampled data must
provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing
steps, many of which have several possible behaviors. To avoid cluttering the
code with lots of switch statements, we use a simple form of object-style
programming to separate out the different possibilities.
For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirection through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.
*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

   Each buffer controller sees the world as follows:

   input data => processing step A => buffer => processing step B => output data
   |         |         |
   --------------- controller -------------

   The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

   A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

   The control modules are objects. A considerable amount of flexibility can
be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
 |  |-- Preprocessing controller --|
 |     |-- Downsampling
Main controller --|
 |  |-- Forward DCT, quantize
 |     |-- Coefficient controller --|
 |        |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.
* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of block_size samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of block_size rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final
destination (e.g., a file). The destination manager supplied with the
library knows how to write to a stdio stream or to a memory buffer;
for other behaviors, the surrounding application may provide its own
destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays
(with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages;
determines handling of nonfatal errors. The surrounding application may
override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports.
This object represents an optional callback to the surrounding application:
if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are
defined as separate objects in order to simplify application-specific
customization of the JPEG library. A surrounding application may override
individual methods or supply its own all-new implementation of one of these
objects. The object interfaces for these objects are therefore treated as
part of the application interface of the library, whereas the other objects
are internal to the library.

The error handler and memory manager are shared by JPEG compression and
decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
    |-- Coefficient controller --|
    |                            |-- Dequantize, Inverse DCT
 Main controller --|
    |                |-- Upsampling
    |-- Postprocessing controller --| |-- Colorspace conversion
    |                        |-- Color quantization
    |                        |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects
shown are:

* Main controller: buffer controller for the subsampled-data buffer, which
holds the output of JPEG decompression proper. This controller's primary
task is to feed the postprocessing procedure. Some upsampling algorithms
may require context rows above and below the current row group; when this
is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will
always be a single component representing colormap indexes. In the current
design, the output values are JSAMPLEs, so an 8-bit compilation cannot
quantize to more than 256 colors. This is unlikely to be a problem in
practice.

* Color reduction: this module handles color precision reduction, e.g.,
generating 15-bit color (5 bits/primary) from JPEG's 24-bit output.
Not quite clear yet how this should be handled... should we merge it with
colorspace conversion???

Note that some high-speed operating modes might condense the entire
postprocessing sequence to a single module (upsample, color convert, and
quantize in one step).

In addition to the above objects, the decompression library includes these
objects:

* Master control: determines the number of passes required, controls overall
and per-pass initialization of the other modules. This is subdivided into
input and output control: jdinput.c controls only input-side processing,
while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source
manager supplied with the library knows how to read from a stdio stream
or from a memory buffer; for other behaviors, the surrounding application
may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress
monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the
decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the
coefficient controller's DCT coefficient buffer. Note that this
processing is relatively cheap and fast.
2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; // ptr to a row of samples
typedef JSAMPLE *JSAMPARRAY; // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; // ptr to a list of color-component arrays
```
The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is
represented by \( N \) consecutive JSAMPLE values, and an image row is an array of 
\((\# \text{ of color components}) \times \text{(image width)}\) JSAMPLEs. One or more rows of data can
be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is
converted to component-wise storage inside the JPEG library. (Applications
that want to skip JPEG preprocessing or postprocessing will have to contend
with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```c
typedef short JCOEF;  // 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; // an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; // ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; // ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; // ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big
enough on all machines of interest, on some machines it is preferable to use
"int" for speed reasons, despite the storage cost. Coefficients are grouped
into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than
"8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged
order, and may be true values or divided by the quantization coefficients,
depending on where the block is in the processing pipeline. In the current
library, coefficient blocks are kept in natural order everywhere; the entropy
codes zigzag or dezigzag the data as it is written or read. The blocks
contain quantized coefficients everywhere outside the DCT/IDCT subsystems.
(This latter decision may need to be revisited to support variable
quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks,
corresponding to block_size rows of samples. Otherwise the structure
is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data
structure limits us to rows of less than 512 JBLOCKs, or a picture width of
4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW)
must be declared as "far" pointers, but the upper levels can be "near"
(implying that the pointer lists are allocated in the DS segment).
We use a #define symbol FAR, which expands to the "far" keyword when
compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***
In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU: a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it
would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.

   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

   (Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

   In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

   In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup. The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdocfct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines (or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines; else usually the same as

jpeg_get_small/jpeg_free_small
On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). `jpeg_open_backing_store` is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call `self_destruct` (typically via `jpeg_destroy`) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a
mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/structure.txt

No license file was found, but licenses were detected in source scan.

/*
* jcmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcmainct.c
No license file was found, but licenses were detected in source scan.

*/

* jidctint.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1…16), 2NxN, and Nx2N (N=1…8) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
* 
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jidctint.c
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2006-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting output suspension.
 * If the data destination module demands suspension, we want to be able to back up to the start of the current MCU. To do this, we copy state variables into local working storage, and update them back to the permanent JPEG objects only upon successful completion of an MCU.
 *
 * We do not support output suspension for the progressive JPEG mode, since the library currently does not allow multiple-scan files to be written with output suspension.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file defines the interface between the system-independent and system-dependent portions of the JPEG memory manager. No other modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.
* This file works as-is for the system-dependent memory managers supplied
  * in the IJG distribution. You may need to modify it if you write a
  * custom memory manager. If system-dependent changes are needed in
  * this file, the best method is to #ifdef them based on a configuration
  * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
  * and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*
 * jdsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdsample.c
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common support routines used by the IJG application
 * programs (cjjpeg, djpeg, jpegtran).
Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.c
No license file was found, but licenses were detected in source scan.

*/
* cdjpeg.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common declarations for the sample applications
cjpeg and djpeg. It is NOT used by the core JPEG library.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.h
No license file was found, but licenses were detected in source scan.

*/
* rdswitch.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
* -qtables file Read quantization tables from text file
* -scans file Read scan script from text file
* -quality N[,N,...] Set quality ratings
* -qslots N[,N,...] Set component quantization table selectors
* -sample HxV[,HxV,...] Set component sampling factors
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdswitch.c
No license file was found, but licenses were detected in source scan.

*/
* jdmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
* */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmaster.c
No license file was found, but licenses were detected in source scan.

/ *
* jdinput.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
* */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdinput.c
No license file was found, but licenses were detected in source scan.

/ *
* jmemname.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file provides a generic implementation of the system-dependent
* portion of the JPEG memory manager. This implementation assumes that
* you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
* */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemname.c
No license file was found, but licenses were detected in source scan.
/*
 * jdcoeftc.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2002-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdcoeftc.c

No license file was found, but licenses were detected in source scan.

/*
 * rdbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed BMP format).
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
 * jdccolor.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdcolor.c

No license file was found, but licenses were detected in source scan.

/*
 * jmemmac.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * jmemmac.c provides an Apple Macintosh implementation of the system-
 * dependent portion of the JPEG memory manager.
 *
 * If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
 * JPEG_INTERNALS part of jconfig.h.
 *
 * jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
 * instead of malloc and free. It accurately determines the amount of
 * memory available by using CompactMem. Notice that if left to its
 * own devices, this code can chew up all available space in the
 * application's zone, with the exception of the rather small "slop"
 * factor computed in jpeg_mem_available(). The application can ensure
 * that more space is left over by reducing max_memory_to_use.
 *
 * Large images are swapped to disk using temporary files and System 7.0+'s
 * temporary folder functionality.
 *
 * Note that jmemmac.c depends on two features of MacOS that were first
 * introduced in System 7: FindFolder and the FSSpec-based calls.
 * If your application uses jmemmac.c and is run under System 6 or earlier,
 * and the jpeg library decides it needs a temporary file, it will abort,
 * printing error messages about requiring System 7. (If no temporary files
 * are created, it will run fine.)
 */
* If you want to use jmemmac.c in an application that might be used with 
* System 6 or earlier, then you should remove dependencies on FindFolder 
* and the FSSpec calls. You will need to replace FindFolder with some 
* other mechanism for finding a place to put temporary files, and you 
* should replace the FSSpec calls with their HFS equivalents:

*  
*   FSpDelete  ->  HDelete 
*   FSpGetFInfo  ->  HGetFInfo 
*   FSpCreate  ->  HCreate 
*   FSpOpenDF  ->  HOpen    *** Note: not HOpenDF ***  
*   FSMakeFSSpec  ->  (fill in spec by hand.) 
*

* (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen, 
* which is on all HFS macs. HOpenDF is a System 7 addition which avoids the 
* ages-old problem of names starting with a period.) 
* 
*  Contributed by Sam Bushell (jsam@iagu.on.net) and 
*  Dan Gildor (gyld@in-touch.com).
* /

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemmac.c
No license file was found, but licenses were detected in source scan.

/*
* wrppm.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPPLUS library is NOT required to compile this software 
* (but it is highly useful as a set of PPM image manipulation programs).
* 
* These routines may need modification for non-Unix environments or 
* specialized applications. As they stand, they assume output to 
* an ordinary stdio stream.
* /

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrppm.c
No license file was found, but licenses were detected in source scan.

/*
* jcarith.c
* Developed 1997-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains portable arithmetic entropy encoding routines for JPEG
* Both sequential and progressive modes are supported in this single module.
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcarith.c

No license file was found, but licenses were detected in source scan.

/*
* jidctflt.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jidctflt.c
No license file was found, but licenses were detected in source scan.

*/
* wrgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in GIF format.
*
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.        *
* There is no trace of the LZW algorithm in this file.                  *
**************************************************************************
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/
/*
* This code is loosely based on ppntogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
* rdtarga.c
 *
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
* jdhuff.c
 *
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy decoding routines.
* Both sequential and progressive modes are supported in this single module.
*
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/
Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdhuff.c
No license file was found, but licenses were detected in source scan.

/ *
* jfdctfst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/ *
* jquant2.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jquant2.c
No license file was found, but licenses were detected in source scan.

/
* jmemmgr.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011-2012 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the JPEG system-independent memory management
* routines. This code is usable across a wide variety of machines; most
* of the system dependencies have been isolated in a separate file.
* The major functions provided here are:
* * pool-based allocation and freeing of memory;
* * policy decisions about how to divide available memory among the
*   virtual arrays;
* * control logic for swapping virtual arrays between main memory and
*   backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemmgr.c
No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all. Try doing
./configure
make
make test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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-------------------

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using one of the supplied jconfig and makefile files
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Building the software
Testing the software
Installing the software
Optional stuff
Optimization
Hints for specific systems
BEFORE YOU START
================

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE
============================

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines; if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
-----------------------------------------------------------------

If you are on a Unix machine, you can just type
./configure
and let the configure script construct appropriate configuration files.
If you're using "csh" on an old version of System V, you might need to type
sh configure
instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines; it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions for GNU configure scripts. It makes a few assumptions that you may want to
override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
  If you want to build libjpeg only as a static library, say
  
  ```sh
  ./configure --disable-shared
  ```

  If you want to build libjpeg only as a shared library, say
  
  ```sh
  ./configure --disable-static
  ```

  Configure uses GNU libtool to take care of system-dependent shared library building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
  To force a particular compiler to be selected, use the CC option, for example
  
  ```sh
  ./configure CC='cc'
  ```

  The same method can be used to include any unusual compiler switches.
  For example, on HP-UX you probably want to say
  
  ```sh
  ./configure CC='cc -Aa'
  ```

  to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
  You can override this by saying, for example,
  
  ```sh
  ./configure CFLAGS='-O2'
  ```

  if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files into `/usr/local/bin`, `/usr/local/man`, etc. You can specify an installation prefix other than `/usr/local` by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IIG software's internal virtual memory mechanism. To do this, give the option "--enable-maxmem=N" where N is the default maxmemory limit in megabytes.
  This is discussed in more detail under "Selecting a memory manager", below.

  You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files

---------------------------------------------------------------

If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig fileSystem and/or compiler

makefile.manx jconfig.manx Amiga, Manx Aztec C
Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand
--------------------------------

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.

(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular
you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get cjpeg.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style

These programs can use a Unix-like command line style which supports redirection and piping, like this:
cjpeg inputfile >outputfile
cjpeg <inputfile >outputfile
source program | cjpeg >outputfile

The simpler "two file" command line style is just:
cjpeg inputfile outputfile

You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fdopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FDOPEN or USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:
* jmemansi.c This version uses the ANSI-standard library routine tmpfile(), which not all non-ANSI systems have. On some systems tmpfile() may put the temporary file in a non-optimal location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything except a Unix machine, you'll need to configure the select_file_name() routine appropriately; see the comments near the head of jmemname.c. If you use this version, define NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-).) This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info.

IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in jconfig.h, and include the assembly file jmemdosa.asm in the programs. The supplied makefiles and jconfig files for 16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. “Plenty” means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion.

If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c; be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpegs are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much
above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
=====================

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE
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As a quick test of functionality we've included a small sample image in several forms:

testorig.jpg Starting point for the djpeg tests.
testimg.ppm The output of djpeg testorig.jpg
testing.bmp The output of djpeg -bmp -colors 256 testorig.jpg
testimg.jpg The output of cjpeg testimg.ppm
testprog.jpg Progressive-mode equivalent of testorig.jpg
testimgp.jpg The output of cjpeg -progressive -optimize testimg.ppm
(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testimg* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg
and cjpeg by hand and compare the output files to testimg* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t. Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpe <testorig.jpg >out.ppm" as from "djpe -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined.

If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpe -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testimg.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE

Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpe, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpe.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say make install
to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying make -n install to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files jpeglib.h jerror.h jconfig.h jmorecfg.h into your include-file directory, and put the library file libjpeg.a (extension may vary depending on system) wherever library files go. If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say make install-lib

OPTIONAL STUFF
==============

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display of percent-done progress reports. The routine provided in cdjpeg.c merely prints percentages to stderr, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:

1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory containing the URT .h files (typically the "include" subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation. To do so:
1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:
If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone’s output. Taking out support for image file formats that you don’t use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
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Unless you own a Cray, you’ll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven’t broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don’t change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg’s -fast switch. Don’t forget to update the documentation files.
If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function in-line-able. Some compilers have a switch that tells the compiler to in-line any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS
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We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.) After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h' dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.
and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPGTMP:"

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not
happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly
close temp files before exiting. But if you use the JPEG library with your
own code, be sure to supply a signal catcher, or else use a different
system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a
compiler bug in old versions of Cray's Standard C (prior to 3.1). If you
still have an old compiler, you'll need to insert a line reading
"#pragma nowector" just before the loop

for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).

[This bug may or may not still occur with the current IJG code, but it's
probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler,
you should run the compiler in ANSI mode. If using the configure script,
say

./configure CC='cc -Aa'

(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add
"-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler
delivered with a minimum HP-UX system, then you must use makefile.unix
(and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior
to A.08.07. If you get complaints about "not a typedef name", you'll have to
use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to
provide a Unix-style command line interface. You can use this interface on
the Mac by means of the ccommand() library routine provided by Metrowerks
CodeWarrior or Think C. This is only appropriate for testing the library,
however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want
to develop a Mac-style user interface. There isn't a complete example
available at the moment, but there are some helpful starting points:

1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to
   JPEG under System 7 and later. This only illustrates how to use the
jmemmac.c is the recommended memory manager back end for Macintosh. It uses NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific implementation of jpeg_mem_available(). It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in jmemmac.c if you need to run it on System 6.) NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger than available memory. If you use any memory manager back end other than jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of malloc/free. (For instance, free() may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND. You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout. This means that when using the cjpeg/djpeg programs, you'll have to type the input and output file names in the “Arguments” text-edit box, rather than using the file radio buttons. (Perhaps USE_FDOPEN or USE_SETMODE would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script makeproj.mac to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:
The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_COMMAND in jconfig.h so that the command() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for
jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented
distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set
MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your
C library's far-heap malloc() can't allocate blocks that large, reduce
MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you
don't have an assembler to assemble jmemdosa.asm --- you'll have to fall
back to jmemansi.c or jmemname.c. You'll probably still need to set
MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc()
more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c,
you will have to compile in a large-data memory model in order to get the
right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB
work area to hold the comment text. If your C library's malloc can't
handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use
two-file command line style. But if your compiler has either fdopen() or
setmode(), you can use one-file style if you like. To do this, define
USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode.
(USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You
should test that I/O through stdin/stdout produces the same results as I/O
to explicitly named files... the "make test" procedures in the supplied
makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a
32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you
should use one if you have it, as performance will be much better than
8086-compatible code!) For flat-memory-space compilers, do NOT define
NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the
environment supplies adequate virtual memory, otherwise use jmemansi.c or
jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout.
See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines).
Although Borland C will often work OK with unmodified Unix (LF newlines)
source files, sometimes it will give bogus compile errors.
"Illegal character '#'" is the most common such error. (This is true with
Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE.
jconfig.bcc already includes #define USE_SETMODE to make this work.
(fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only
be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE.
jconfig.mc6 already includes #define USE_SETMODE to make this work.
(fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called
"makefile". If you want to call it something else, say "makefile.mak".
be sure to adjust the dependency line that reads "$RFILE : makefile".
Otherwise the make will fail because it doesn't know how to create "makefile".
Worse, some releases of Microsoft's make utilities give an incorrect error
message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error
because they can't cope with the macro TRACEMS8 (defined in jerror.h).
If this happens to you, the easiest solution is to change TRACEMS8 to
expand to nothing. You'll lose the ability to dump out JPEG coefficient
tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn
off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it
still generates bad code if you enable loop optimizations (-O1 or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ...
which is on by default. To work around this bug, compile that one file
with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char".
The IJG code also defines typedef boolean, but we make it an "enum" by default.
This doesn't affect the IJG programs because we don't import those Windows
include files. But if you use the JPEG library in your own program, and some
of your program's files import one definition of boolean while some import the
other, you can get all sorts of mysterious problems. A good preventive step
is to make the IJG library use "unsigned char" for boolean. To do that, 
add something like this to your jconfig.h file:
/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE/* in case these macros already exist */
#define FALSE0/* values of boolean */
#endif
#ifndef TRUE
#define TRUE1
#endif
#define HAVE_BOOLEAN/* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far
Since jmorecfg.h tries to define FAR as empty, you may get a compiler 
warning if you include both jpeglib.h and windef.h (which windows.h 
includes). To suppress the warning, you can put "#ifndef FAR""#endif" 
around the line "#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly 
want to modify or replace the error handler module jerror.c, since our 
default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "\%s\n", buffer);
(in output_message in jerror.c) with
MessageBox(GetActiveWindow(), buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise 
error messages will disappear into nowhere. (Beginning with IJG v6b, this 
code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in 
jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling 
application after a library error. This can be done with the setjmp/longjmp 
technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: 
some older Windows C compilers provide versions of setjmp/longjmp that 
don't actually work under Windows. You may need to use the Windows system 
functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words, 
let Windows do any virtual memory management needed. You should NOT use
jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you’ll need to put
#define MAX_ALLOC_CHUNK 65520L/* Maximum request to malloc() */
into jconfig.h to limit allocation chunks to 64Kb. (Without that, you’d have to use huge memory model, which slows things down unnecessarily.)

jmemnobs.c works without modification in large or flat memory models, but to use medium model, you need to modify its jpeg_get_large and jpeg_free_large routines to allocate far memory. In any case, you might like to replace its calls to malloc and free with direct calls on Windows memory allocation functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn’t provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don’t try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn’t true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don’t work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You’ll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you’ll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:
#define GLOBAL(type)type _far _pascal _loadds _export
#define EXTERN(type)extern type _far _pascal _loadds
#define METHODDEF(type)static type _far _pascal
#define JMETHO(type,methodname,arglist)  \
    type (_far _pascal *methodname) arglist

For a 32-bit DLL you may want something like
#define GLOBAL(type)__declspec(dllexport) type
#define EXTERN(type)extern __declspec(dllexport) type

Although not all the GLOBAL routines are actually intended to be called by
the application, the performance cost of making them all DLL entry points is
negligible.

The unmodified IJG library presents a very C-specific application interface,
so the resulting DLL is only usable from C or C++ applications. There has
been some talk of writing wrapper code that would present a simpler interface
usable from other languages, such as Visual Basic. This is on our to-do list
but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment,
but you'll need to tweak it in a 16-bit environment (you'd need to define
NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need
alteration if you want to use it for Windows --- in particular, you should
use jmennobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile
jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix
it. In the meantime, the simplest known workaround is to add a redundant
definition of the variable range_limit in h2v1_merged_upsample(), at the head
of the block that handles odd image width (about line 268 in v6 jdmerge.c):
/*@ If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
}
Pretty bizarre, especially since the very similar routine h2v2_merged_upsample
doesn't trigger the bug.
Recent reports suggest that this bug does not occur with "bcc32a" (the
Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading
to a color shift in processed images) was produced if any of the following
optimization switch combinations were used:
-Ot -Og
-Ot -Op
-Ot -Om
So try backing off on optimization if you see such a problem. (Are there
several different releases all numbered "4.5"??)
Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" [ ... ] around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the command line

   NMAKE /f makefile.vs setup-vc6

   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)

2. Open the workspace file jpeg.dsw, build the library project. (If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)

3. Open the workspace file apps.dsw, build the application projects.

4. To perform the self-test, execute the command line

   NMAKE /f makefile.vs test-build

5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)
To use:
1. Open the Developer Command Prompt, change to the main directory and execute the command line
NMAKE /f makefile.vs setup-v15
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
   a) If you are using Visual Studio more recent than
      2017 (v15), you'll probably get a message saying
      that the project files are being updated.
   b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section;
      we support the latest version at the time of release.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.
If you are using configure, you can do this by saying
./configure RANLIB='ar -ts'
This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.
VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

```
*/
* djpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* 
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djpeg [options]  inputfile outputfile
* djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djpeg [options] -outfile outputfile  inputfile
* works regardless of which command line style is used.
*/
```

```
*/
* jdatasrc.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
```
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdatasrc.c

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*
*  Block comments in this style.
*/

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
  code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif

which is used like this:

struct function_pointers {
  JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
  JMETHOD(void, term_entropy_encoder, (void));
};

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say,
this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjjpeg.c and djjpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/coderules.txt
No license file was found, but licenses were detected in source scan.

/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
This file contains application interface routines that are used for both
compression and decompression.

Found in path(s):
/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcomapi.c

No license file was found, but licenses were detected in source scan.

/jconfig.txt

Copyright (C) 1991-1994, Thomas G. Lane.
Modified 2009-2013 by Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.
This file documents the configuration options that are required to
customize the JPEG software for a particular system.

The actual configuration options for a particular installation are stored
in jconfig.h. On many machines, jconfig.h can be generated automatically
or copied from one of the "canned" jconfig files that we supply. But if
you need to generate a jconfig.h file by hand, this file tells you how.

DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
EDIT A COPY NAMED JCONFIG.H.

These symbols indicate the properties of your machine or compiler.
#define the symbol if yes, #undef it if no.

Does your compiler support function prototypes?
(If not, you also need to use ansi2knr, see install.txt)

#define HAVE_PROTOTYPES

Does your compiler support the declaration "unsigned char"?
How about "unsigned short"?

#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

Define "void" as "char" if your compiler doesn't know about type void.
NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
/*
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
/*
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
*/
define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stdbool.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems.
*/
#if defined _WIN32
#ifndef __RPCNDR_H__/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE/* in case these macros already exist */
define FALSE0/* values of boolean */
#endif
#ifndef TRUE
#define TRUE1
#endif
#define HAVE_BOOLEAN/* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/
#if defined JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/
#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
 * line, rather than using stdout and optionally stdin. You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout. See comments at
 * head of cjpeg.c or djpeg.c.
 */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjjpeg/djpeg.
 */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
This file contains a very simple stand-alone application that inserts user-supplied text as a COM (comment) marker in a JFIF file. This may be useful as an example of the minimum logic needed to parse JPEG markers.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrjpgcom.c

No license file was found, but licenses were detected in source scan.

/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel of each desired color. Such a file can be extracted from an ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not currently implemented.
 */

/* Portions of this code are based on the PBMLPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. This software is provided "as is" without express or implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
 * jcprepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 *
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
 * jcsample.c for the downsampler's needs.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcprepct.c

No license file was found, but licenses were detected in source scan.

/*
 * jcapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-compression case or the transcoding-only
 * case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jcapistd.c. But also see jcparam.c for
 * parameter-setup helper routines, jcomapi.c for routines shared by
 * compression and decompression, and jctrans.c for the transcoding case.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcapimin.c

No license file was found, but licenses were detected in source scan.

/*
 * rdjpgcom.c
 */
No license file was found, but licenses were detected in source scan.

/*
 * jquant1.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group’s software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
 * jccolor.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group’s software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jdarith.c
 *
 * Developed 1997-2015 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group’s software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
 * wrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains routines to write output images in Targa format.
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrtarga.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegtran.c
 *
 * Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains a command-line user interface for JPEG transcoding.
 * It is very similar to cjpeg.c, and partly to djpeg.c, but provides
 * lossless transcoding between different JPEG file formats. It also
 * provides some lossless and sort-of-lossless transformations of JPEG data.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
  * (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/

/* Portions of this code are based on the PBMPLUS library, which is:

**
** Copyright (C) 1988 by Jef Poskanzer.
**
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** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
**
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jaricom.c
 *
 * Developed 1997-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 *
 * This data represents Table D.3 in the JPEG spec (D.2 in the draft),
 * ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains tables and miscellaneous utility routines needed
 * for both compression and decompression.
 * Note we prefix all global names with "j" to minimize conflicts with
 * a surrounding application.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jutils.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 */
This file defines the error and message codes for the cjpeg/djpeg applications. These strings are not needed as part of the JPEG library proper. Edit this file to add new codes, or to translate the message strings to some other language.

Found in path(s):

No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

TABLE OF CONTENTS
-----------------

Overview:
Functions provided by the library
Outline of typical usage
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Data formats
Compression details
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Mechanics of usage: include files, linking, etc
Advanced features:
You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs,
ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from
in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
Data formats
----------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data
that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12.
(See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details,
except that colormapped output is supported. (Again, a JPEG file is never
colormapped. But you can ask the decompressor to perform on-the-fly color
quantization to deliver colormapped output.) If you request colormapped
output then the returned data array contains a single JSAMPLE per pixel;
its value is an index into a color map. The color map is represented as
a 2-D JSAMPARRAY in which each row holds the values of one color component,
that is, colormap[i][j] is the value of the i'th color component for pixel
value (map index) j. Note that since the colormap indexes are stored in
JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE
(ie, at most 256 colors for an 8-bit JPEG library).

Compression details
---------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has
a bunch of subsidiary structures which are allocated via malloc(), but the
application doesn't control those directly.) This struct can be just a local
variable in the calling routine, if a single routine is going to execute the
whole JPEG compression sequence. Otherwise it can be static or allocated
from malloc().

You will also need a structure representing a JPEG error handler. The part
of this that the library cares about is a "struct jpeg_error_mgr". If you
are providing your own error handler, you'll typically want to embed the
jpeg_error_mgr struct in a larger structure; this is discussed later under
"Error handling". For now we'll assume you are just using the default error
handler. The default error handler will print JPEG error/warning messages
on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into
the JPEG object's "err" field, and then call jpeg_create_compress() to
initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...

---

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2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- image_width: Width of image, in pixels
- image_height: Height of image, in pixels
- input_components: Number of color channels (samples per pixel)
in_color_space

Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
    cinfo.image_width = Width; /* image width and height, in pixels */
    cinfo.image_height = Height;
    cinfo.input_components = 3; /* # of color components per pixel */
    cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

    jpeg_set_defaults(&cinfo);
    /* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
    jpeg_start_compress(&cinfo, TRUE);

    The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.
```
Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
   row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
   jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun
will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen. In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don’t forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you’ll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which
works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
----------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above,
except that the object is a "struct jpeg_decompress_struct" and you
call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for
both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data
source" module. The library includes one data source module which knows how
to read from a stdio stream. You can use your own source module if you want
to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream
beforehand. Typical code for this step looks like:

```
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

**WARNING:** it is critical that the binary compressed data be read unchanged.
On non-Unix systems the stdio library may perform newline translation or
otherwise corrupt binary data. To suppress this behavior, you may need to use
a "b" option to fopen (as shown above), or use setmode() or another routine to
put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that
has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and
jpeg_finish_decompress(). If you wish to read a series of JPEG images from
a single source file, you should repeat the jpeg_read_header() to
jpeg_finish_decompress() sequence without reinitializing either the JPEG
object or the data source module; this prevents buffered input data from
being discarded.
3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

`jpeg_read_header()` sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file.
If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to `jpeg_read_header()`. If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

```
5. jpeg_start_decompress(...);
```
Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

```c
jpeg_start_decompress(&cinfo);
```

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include:

- `output_width`: image width and height, as scaled
- `output_height`
- `out_color_components`: number of color components in `out_color_space`
- `output_components`: number of color components returned per pixel
- `colormap`: the selected colormap, if any
- `actual_number_of_colors`: number of entries in colormap

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need `output_width * output_components` JSAMPLEs per scanline in your output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library’s internal memory manager to allocate data buffers (as djpeg does), then the manager’s protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines()
will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case
return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

```c
jpeg_destroy_decompress(&cinfo);
```


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that
at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES

Compression parameter selection

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use
this routine and perhaps jpeg_set_quality().

jpeg_set_colorsace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorsace() before rather than after.

jpeg_default_colorsace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorsace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.
jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values
(see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.

int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for
compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is
1/1, or no scaling. Currently, the supported scaling ratios are
M/N with all N from 1 to 16, where M is the destination DCT size,
which is 8 by default (see block_size parameter above).
(These library design allows for arbitrary scaling ratios but this
is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using
jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero
requires decoder with inverse color transform support, introduced
with IJG JPEG 9).
Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN.
Set this value for lossless RGB application *before* calling
jpeg_set_colorspace(), because entropy table assignment in
jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables
for the image. This requires an extra pass over the data and
therefore costs a good deal of space and time. The default is
FALSE, which tells the compressor to use the supplied or default
Huffman tables. In most cases optimal tables save only a few percent
of file size compared to the default tables. Note that when this is
TRUE, you need not supply Huffman tables at all, and any you do
supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero.
Set restart_interval to specify the exact interval in MCU blocks.
Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.

NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate downsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker. jpeg_set_defaults() initializes the version to 1.01 (major=minor=1). You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
Linear quantization scaling factors (percentage, initialized 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you
have to convert from user-defined ratings via jpeg_quality_scaling().
Here is an example code which corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: You must also set 1x1 subsampling for efficient separate
color quality selection, since the default value used by library
is 2x2:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if
no table is defined for a slot. Slots 0 and 1 are filled with the
JPEG sample tables by jpeg_set_defaults(). If you need to allocate
more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image
by setting optimize_coding, as discussed above; there's seldom
any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are
given by the following fields. These are computed from the input image
dimensions and the compression parameters by jpeg_start_compress(). You can
also call jpeg_calc_jpeg_dimensions() to obtain the values that will result
from the current parameter settings. This can be useful if you are trying
to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for
component number i. Note that components here refer to components of the
JPEG color space, *not* the source image color space. A suitably large
comp_info[] array is allocated by jpeg_set_defaults(); if you choose not
to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for
this component. For the standard color spaces, we recommend you
leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must
be 1..4 according to the JPEG standard. Note that larger sampling
factors indicate a higher-resolution component; many people find
this behavior quite unintuitive. The default values are 2,2 for
luminance components and 1,1 for chrominance components, except
for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is
0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

```c
int component_index
```

Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

```c
JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Colorspace of image
boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform Color transform code from Adobe marker
```

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:
J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE No dithering: fast, very low quality
JDITHER_ORDERED Ordered dither: moderate speed and quality
JDITHER_Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented
only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress().
Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without.
In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers before jpeg_start_decompress().

**JDIMENSION**

- output_width: Actual dimensions of output image.
- output_height: int out_color_components: Number of color components in out_color_space.
- output_components: Number of color components returned.
- rec_outbuf_height: Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown
color space, passing it through without conversion. If you deal extensively
with an unusual color space, you can easily extend the library to understand
additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field
in_color_space. This is transformed to the JPEG file's color space given
by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color
space depending on in_color_space, but you can override this by calling
jpeg_set_colorsbrace(). Of course you must select a supported transformation.
jjcolor.c currently supports the following transformations:
  RGB => YCbCr
  RGB => GRAYSCALE
  RGB => BG_YCC
  YCbCr => GRAYSCALE
  YCbCr => BG_YCC
  CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK,
YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers
that indicate the color space of the JPEG file. It is important to ensure
that these are written correctly, or omitted if the JPEG file's color space
is not one of the ones supported by the interchange standards.
jpeg_set_colorsbrace() will set the compression parameters to include or omit
the APPn markers properly, so long as it is told the truth about the JPEG
color space. For example, if you are writing some random 3-component color
space without conversion, don't try to fake out the library by setting
in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN.
You may want to write an APPn marker of your own devising to identify
the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using
luminance-quality compression parameters for all color components. You may
well want to change these parameters. See the source code for
jpeg_set_colorsbrace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space,
and this is transformed to the output color space out_color_space.
jpeg_read_header's setting of jpeg_color_space can be relied on if the file
conforms to JFIF or Adobe conventions, but otherwise it is no better than a
guess. If you know the JPEG file's color space for certain, you can override
jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also
selects a default output color space based on (its guess of) jpeg_color_space;
set out_color_space to override this. Again, you must select a supported
transformation. jdcolor.c currently supports
  YCbCr => RGB
  YCbCr => GRAYSCALE
BG_YCC => RGB
BG_YCC => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
-------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the
program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so,
calls output_message. The main reason for overriding this method
would be to abort on warnings. msg_level is -1 for warnings,
0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG
library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to
by the field err->jpeg_message_table. The messages are numbered from 0 to
err->last_jpeg_message, and it is these code numbers that are used in the
JPEG library code. You could replace the message texts (for instance, with
messages in French or German) by changing the message table pointer. See
jerror.h for the default texts. CAUTION: this table will almost certainly
change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are
handled by the same mechanism. The error handler supports a second "add-on"
message table for this purpose. To define an addon table, set the pointer
er->addon_message_table and the message numbers err->first_addon_message and
er->last_addon_message. If you number the addon messages beginning at 1000
or so, you won't have to worry about conflicts with the library's built-in
messages. See the sample applications cjpeg/djpeg for an example of using
addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the
error handler struct, then invoke the error_exit() or emit_message() method.
The variants of each macro are for varying numbers of additional parameters.
The additional parameters are inserted into the generated message using
standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination
manager" module. The default destination manager just writes the data to a
memory buffer or to a stdio stream, but you can provide your own manager to
do something else. Similarly, the decompression library calls a "source
manager" to obtain the compressed data; you can provide your own source
manager if you want the data to come from somewhere other than a memory
buffer or a stdio stream.
In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```c
JOCTET * next_output_byte;  /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

- `init_destination (j_compress_ptr cinfo)`
  Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

- `empty_output_buffer (j_compress_ptr cinfo)`
  This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

- `term_destination (j_compress_ptr cinfo)`
Terminate destination --- called by jpeg_finish_compress() after all
data has been written. In most applications, this must flush any
data remaining in the buffer. Use either next_output_byte or
free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you
want the destination manager to be cleaned up during an abort, you must do it
yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its
method pointers, and insert a pointer to the struct into the "dest" field of
the JPEG compression object. This can be done in-line in your setup code if
you like, but it's probably cleaner to provide a separate routine similar to
the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination
managers.

Decompression source managers follow a parallel design, but with some
additional frammishes. The source manager struct contains a pointer and count
defining the next byte to read from the work buffer and the number of bytes
remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer
is emptied. The manager's fill_input_buffer method must reset the pointer and
count. In most applications, the manager must remember the buffer's starting
address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any
data is actually read. Unlike init_destination(), it may leave
bytes_in_buffer set to 0 (in which case a fill_input_buffer() call
will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
suspension is desired (this mode is discussed in the next section).
skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should
be advanced over num_bytes input bytes, refilling the buffer as
needed. This is used to skip over a potentially large amount of
uninteresting data (such as an APPn marker). In some applications
it may be possible to optimize away the reading of the skipped data,
but it’s not clear that being smart is worth much trouble; large
skips are uncommon. bytes_in_buffer may be zero on return.
A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find
a restart (RSTn) marker where one is expected. Its mission is to
find a suitable point for resuming decompression. For most
applications, we recommend that you just use the default resync
procedure, jpeg_resync_to_restart(). However, if you are able to back
up in the input data stream, or if you have a-priori knowledge about
the likely location of restart markers, you may be able to do better.
Read the read_restart_marker() and jpeg_resync_to_restart() routines
in jdmarker.c if you think you’d like to implement your own resync
procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the decompressor to output
however much of the image is there. In pathological cases, the decompressor
may swallow the EOI and again demand data ... just keep feeding it fake EOIs.
jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want
the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method
pointers, and insert a pointer to the struct into the "src" field of the JPEG
decompression object. This can be done in-line in your setup code if you
like, but it's probably cleaner to provide a separate routine similar to the
jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination
managers in jdatasrc.c and jdatadst.c.
I/O suspension

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency: you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least
several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:
* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift
this data down to the start of your work buffer and then load more data after
it. Again, this behavior means that a several-Kbyte work buffer is essential
for decent performance; furthermore, you should load a reasonable amount of
new data before resuming decompression. (If you loaded, say, only one new
byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a
suspension scenario. This routine is NOT granted the ability to suspend the
decompressor; it can decrement bytes_in_buffer to zero, but no more. If the
requested skip distance exceeds the amount of data currently in the input
buffer, then skip_input_data() must set bytes_in_buffer to zero and record the
additional skip distance somewhere else. The decompressor will immediately
call fill_input_buffer(), which should return FALSE, which will cause a
suspension return. The surrounding application must then arrange to discard
the recorded number of bytes before it resumes loading the input buffer.
(Yes, this design is rather baroque, but it avoids complexity in the far more
common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning
and insert dummy EOI markers just as a non-suspending data source manager
would do. This can be handled either in the surrounding application logic or
within fill_input_buffer(); the latter is probably more efficient. If
fill_input_buffer() knows that no more data is available, it can set the
pointer/count to point to a dummy EOI marker and then return TRUE just as
though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers;
instead it will backtrack to the start of the marker and reprocess the whole
marker next time. Hence the input buffer must be large enough to hold the
longest standard marker in the file. Standard JPEG markers should normally
not exceed a few hundred bytes each (DHT tables are typically the longest).
We recommend at least a 2K buffer for performance reasons, which is much
larger than any correct marker is likely to be. For robustness against
damaged marker length counts, you may wish to insert a test in your
application for the case that the input buffer is completely full and yet
the decoder has suspended without consuming any data --- otherwise, if this
situation did occur, it would lead to an endless loop. (The library can't
provide this test since it has no idea whether "the buffer is full", or
even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn
markers, but these are handled specially: they are either saved into allocated
memory, or skipped over by calling skip_input_data(). In the former case,
suspension is handled correctly, and in the latter case, the problem of
buffer overrun is placed on skip_input_data's shoulders, as explained above.
Note that if you provide your own marker handling routine for large markers,
you should consider how to deal with buffer overflow.
Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

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Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library.
If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library’s “buffered-image” mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder’s coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc.

The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don’t want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg’s.)

When scan_info is not NULL, the compression library will store DCT’d data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here “multi-scan” means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check...
for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode
---------------------

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```c
jpeg_create_decompress()  
set data source
jpeg_read_header()  
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()  
for (each output pass) {  
    adjust output decompression parameters if required
    jpeg_start_output()/* start a new output pass */
    for (all scanlines in image) {  
        jpeg_read_scanlines()  
        display scanlines
    }
    jpeg_finish_output()/* terminate output pass */
}  
jpeg_finish_decompress()  
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```c
while (! jpeg_input_complete(&cinfo))
```
and the start-output call should read:

```c
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to `jpeg_start_output()` indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and `jpeg_finish_output()` advances to the next scan or end-of-image marker (hence `input_scan_number` will be incremented by the time control arrives back at `jpeg_start_output()`).

With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the `jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()` sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call `jpeg_finish_decompress()` to release the buffered image (or just use `jpeg_destroy_decompress()`).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine `jpeg_consume_input()`.

The return value is one of the following:

- **JPEG_REACHED_SOS**: reached an SOS marker (the start of a new scan)
- **JPEG_REACHED_EOI**: reached the EOI marker (end of image)
- **JPEG_ROW_COMPLETED**: completed reading one MCU row of compressed data
- **JPEG_SCAN_COMPLETED**: completed reading last MCU row of current scan
- **JPEG_SUSPENDED**: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call `jpeg_consume_input()` whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to `jpeg_consume_input()`. But by adding calls to `jpeg_consume_input()`, you can absorb data in advance of what is being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library’s input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it’s best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under “I/O suspension”, above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library’s output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can’t avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out...
again. If the input arrives fast enough, it may “wrap around” the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you’ve skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you’ll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);

    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as `jpeg_input_complete()` returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don’t want to use special parameters for the final pass, the right loop logic is like this:

```c
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);

    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don’t need to know in advance whether an output pass is to be the last one, so it’s not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code
from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().)
In this situation you may wish to abort the current display pass and start a
new one using the newly arrived information. To do so, just call
jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete
scan arrives during an output pass; this can be detected by noting
JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This
idea should be employed with caution, however, since the display process
might never get to the bottom of the image before being aborted, resulting
in the lower part of the screen being several passes worse than the upper.
In most cases it's probably best to abort an output pass only if the whole
file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using
the current input scan number for the output target scan number; if a
higher-quality final pass is to be done, it should be started (aborting any
incomplete output pass) as soon as the end of file is received. However,
many other strategies are possible. For example, the application can examine
the parameters of the current input scan and decide whether to display it or
not. If the scan contains only chroma data, one might choose not to use it
as the target scan, expecting that the scan will be small and will arrive
quickly. To skip to the next scan, call jpeg_consume_input() until it
returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher
number as the target scan for jpeg_start_output(); but that method doesn't
let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and
thus never suspends. An application that uses input suspension with
buffered-image mode must be prepared for suspension returns from these
routines:
* jpeg_start_output() performs input only if you request 2-pass quantization
  and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it
  was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan,
  up to the end of the file or the SOS marker that begins another scan.
  (But it reads no input if jpeg_consume_input() has already reached the
  end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can
  suspend if the end hasn't already been reached (as can be tested by
calling jpeg_input_complete()).
jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress()
all return TRUE if they completed their tasks, FALSE if they had to suspend.
In the event of a FALSE return, the application must load more input data
and repeat the call. Applications that use non-suspending data sources need
not check the return values of these three routines.
It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.

* dither_mode can be changed before each call to jpeg_start_output();
  of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.

* do_block_smoothing can be changed before each call to jpeg_start_output().
  This setting is relevant only when decoding a progressive JPEG image.
  During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below.
  You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.

2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.

3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)
   These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did
not require this, the max_memory_to_use setting would be a complete fiction.)
You do this by setting one or more of these three cinfo fields to TRUE:
enable_1pass_quant	Fixed color cube colormap
enable_external_quant	Externally-supplied colormap
enable_2pass_quant	Two-pass custom colormap
All three are initialized FALSE by jpeg_read_header(). But
jpeg_start_decompress() automatically sets TRUE the one selected by the
current two_pass_quantize and colormap settings, so you only need to set the
enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you
can change to any enabled quantization method by setting two_pass_quantize
and colormap properly just before calling jpeg_start_output(). The following
special rules apply:
1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass
   or 2-pass mode from a different mode, or when you want the 2-pass
   quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external
   colormap than was used on the prior pass, you must call
   jpeg_new_colormap() after setting cinfo.colormap.
NOTE: if you want to use the same colormap as was used in the prior pass,
you should not do either of these things. This will save some nontrivial
switchover costs.
(These requirements exist because cinfo.colormap will always be non-NULL
after completing a prior output pass, since both the 1-pass and 2-pass
quantizers set it to point to their output colormaps. Thus you have to
do one of these two things to notify the library that something has changed.
Yup, it's a bit klugy, but it's necessary to do it this way for backwards
compatibility.)

Note that in buffered-image mode, the library generates any requested colormap
during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the
buffered image to determine the optimum color map; it therefore may take a
significant amount of time, whereas ordinarily it does little work. The
progress monitor hook is called during this pass, if defined. It is also
important to realize that if the specified target scan number is greater than
or equal to the current input scan number, jpeg_start_output() will attempt
to consume input as it makes this pass. If you use a suspending data source,
you need to check for a FALSE return from jpeg_start_output() under these
conditions. The combination of 2-pass quantization and a not-yet-fully-read
target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it
for all JPEG images, even single-scan ones. This will work, but it is
inefficient: there is no need to create an image-sized coefficient buffer for
single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (i.e., if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
-------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard
defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)
To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n];/* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
```

Qtable[] is desired quantization table, in natural array order */
quant_ptr->quantval[i] = Qtable[i];
}

Code to load a fixed Huffman table is typically (for AC table "n"):

if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
/* counts[i] is number of Huffman codes of length i bits, i=1..16 */
huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
/* symbols[] is the list of Huffman symbols, in code-length order */
huff_ptr->huffval[i] = symbols[i];
}

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(); it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().
It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn’t flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you’d need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It’s probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.
By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```c
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available
input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call

```
jpeg_save_markers(cinfo, marker_code, length_limit)
```

where `marker_code` is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than `length_limit` data bytes, only `length_limit` bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set `length_limit` to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting `length_limit` to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After `jpeg_read_header()` completes, you can examine the special markers by following the `cinfo->marker_list` pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed `length_limit` for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which `jpeg_read_header` stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing `jpeg_read_header`, to ensure that the `max_memory_to_use` setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call `jpeg_finish_decompress` or `jpeg_abort`, at which point the memory is freed and the list is set to empty. (`jpeg_destroy` also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library
If you want to supply your own marker-reading routine, you do it by calling
jpeg_set_marker_processor(). A marker processor routine must have the
signature

```c
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```
Although the marker code is not explicitly passed, the routine can find it
in cinfo->unread_marker. At the time of call, the marker proper has been
read from the data source module. The processor routine is responsible for
reading the marker length word and the remaining parameter bytes, if any.
Return TRUE to indicate success. (FALSE should be returned only if you are
using a suspending data source and it tells you to suspend. See the standard
marker processors in jdmarker.c for appropriate coding methods if you need to
use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to
recognize JFIF and Adobe markers if you want colorspace recognition to occur
properly. We recommend copying and extending the default processors if you
want to do that. (A better idea is to save these marker types for later
examination by calling jpeg_save_markers(); that method doesn't interfere
with the library's own processing of these markers.)

```c
jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive
```
--- if you call one it overrides any previous call to the other, for the
particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c.
Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG
compressor, or to receive raw downsampled data from the decompressor. The
library supports this requirement by allowing the application to write or
read raw data, bypassing the normal preprocessing or postprocessing steps.
The interface is different from the standard one and is somewhat harder to
use. If your interest is merely in bypassing color conversion, we recommend
that you use the standard interface and simply set jpeg_color_space =
in_color_space (or jpeg_color_space = out_color_space for decompression).
The mechanism described in this section is necessary only to supply or
receive downsampled image data, in which not all components have the same
To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of block_size valid samples, and there must be a multiple of block_size sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data. Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use real downsampled data. (It is set TRUE by jpeg_set_defaults().)

* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.

* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*block_size sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*block_size, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.
The required dimensions of the supplied data can be computed for each component as:

cinfo->comp_info[i].width_in_blocks*block_size samples per row

cinfo->comp_info[i].height_in_blocks*block_size rows in image

after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than block_size samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is:

cinfo->comp_info[0].h_samp_factor = 2 for Y

cinfo->comp_info[0].v_samp_factor = 2

cinfo->comp_info[1].h_samp_factor = 1 for Cb

cinfo->comp_info[1].v_samp_factor = 1

cinfo->comp_info[2].h_samp_factor = 1 for Cr

cinfo->comp_info[2].v_samp_factor = 1

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing. You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real downsampled data (it is set TRUE by jpeg_read_header()).
Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The
decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a
buffer of at least max_v_samp_factor*block_size scanlines (scanline counting
is the same as for raw-data compression). The buffer you pass must be large
enough to hold the actual data plus padding to DCT-block boundaries. As with
compression, any entirely dummy DCT blocks are not processed so you need not
allocate space for them, but the total scanline count includes them. The
above example of computing buffer dimensions for raw-data compression is
equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source
module suspends, jpeg_read_raw_data() will return 0. You can also use
buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
---------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT
coefficients. This facility is mainly intended for use in lossless
transcoding between different JPEG file formats. Other possible applications
include lossless cropping of a JPEG image, lossless reassembly of a
multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do
jpeg_read_header() as usual. But instead of calling jpeg_start_decompress()
and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the
entire image into a set of virtual coefficient-block arrays, one array per
component. The return value is a pointer to an array of virtual-array
descriptors. Each virtual array can be accessed directly using the JPEG
memory manager's access_virt_barray method (see Memory management, below,
and also read structure.txt's discussion of virtual array handling). Or,
for simple transcoding to a different JPEG file format, the array list can
just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in
normal array order (not JPEG zigzag order). The block arrays contain only
DCT blocks containing real data; any entirely-dummy blocks added to fill out
interleaved MCUs at the right or bottom edges of the image are discarded
during reading and are not stored in the block arrays. (The size of each
block array can be determined from the width_in_blocks and height_in_blocks
fields of the component's comp_info entry.) This is also the data format
expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress()
to release the array storage and return the decompression object to an idle
state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

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jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety’s sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables’ individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
---------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don’t get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don’t recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don’t pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library’s inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

long pass_counter;/* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes;/* passes completed so far */
int total_passes;/* total number of passes expected */
During any one pass, pass_counter increases from 0 up to (not including)
pass_limit; the step size is usually but not necessarily 1. The pass_limit
value may change from one pass to another. The expected total number of
passes is in total_passes, and the number of passes already completed is in
completed_passes. Thus the fraction of work completed may be estimated as
completed_passes + (pass_counter/pass_limit)
--------------------------------------------
total_passes
ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it
depends on the number of scans in the JPEG file, which isn't always known in
advance. The computed fraction-of-work-done may jump suddenly (if the library
discovers it has overestimated the number of scans) or even decrease (in the
opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work
estimate is likely to be completely unhelpful, because the library has no way
to know how many output passes will be demanded of it. Currently, the library
sets total_passes based on the assumption that there will be one more output
pass if the input file end hasn't yet been read (jpeg_input_complete() isn't
TRUE), but no more output passes if the file end has been reached when the
output pass is started. This means that total_passes will rise as additional
output passes are requested. If you have a way of determining the input file
size, estimating progress based on the fraction of the file that's been read
will probably be more useful than using the library's value.

Memory management
-------------------

This section covers some key facts about the JPEG library's built-in memory
manager. For more info, please read structure.txt's section about the memory
manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the
memory manager. If necessary, you can replace the "back end" of the memory
manager to control allocation yourself (for example, if you don't want the
library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG
object is destroyed. Most data is allocated "per image" and is freed by
jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the
memory manager yourself to allocate structures that will automatically be
freed at these times. Typical code for this is
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.
Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and
JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The “fixed-size” data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12.
Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.

The sample applications cjpeg and djpeg can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.)

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the
message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don’t need trace capability anyway, right?

Portability considerations
-----------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we’d appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
chars at least 8 bits wide
shorts at least 16 bits wide
ints at least 16 bits wide
longs at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg’s select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory
manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
-------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table).

Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.
Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

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/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
 * scaled quantization values. However, that problem does not arise if
 * we use floating point arithmetic.
 */

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 * jdtrans.c
 *
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 * This file is part of the Independent JPEG Group's software.
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 *
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdapimin.c will also be needed by a transcoder.
 */

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 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
 */

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 * jinclude.h
 *
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 */
* This file is part of the Independent JPEG Group's software.
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*
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

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/
* jmemansi.c
*
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*
* This file provides a simple generic implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that you have the ANSI-standard library routine tmpfile().
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

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/
* jcapistd.c
*
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* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the

* whole compression library into a transcoder.
*/

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/*
 * transupp.h
 *
 * Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */

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 * rdgif.c
 *
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in GIF format.
 *
*****************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,   *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                                      *
*****************************************************************************
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to output to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
 */

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/*
 * jdapimin.c
 *
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 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdapimin.c
1.1068 httpasyncclient 4.0-beta3

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1.1069 spring-web-mvc 3.1.4.RELEASE

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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfigurer.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/handler/AbstractHandlerMapping.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/view/velocity/VelocityView.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/view/tiles2/TilesView.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/view/json/package-info.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/tags/form/ValueFormatter.java
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/views/paramAware.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/views/urlBasedViewResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/views/urlTag.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/views/abstractUrlBasedView.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/views/abstractTemplateView.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/views/abstractExcelView.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/views/internalResourceViewResolver.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/views/velocity/velocityLayoutView.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/views/velocity/velocityViewResolver.java

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jar/org/springframework/web/servlet/config/annotation/EnableWebMvc.java

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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/ResourceServlet.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/tags/ThemeTag.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/tags/CheckboxesTag.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/tags/RadioButtonsTag.java
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 * A contract for inspecting and potentially modifying request data values such
 * as URL query parameters or form field values before they are rendered by a
 * view or before a redirect.
 * 
 * <p>Implementations may use this contract for example as part of a solution
 * to provide data integrity, confidentiality, protection against cross-site
 * request forgery (CSRF), and others or for other tasks such as automatically
 * adding a hidden field to all forms and URLs.
 * 
 * <p>View technologies that support this contract can obtain an instance to
 * delegate to via {@link RequestContext#getRequestDataValueProcessor()}. 
 * 
 * @author Rossen Stoyanchev
 * @since 3.1
 */

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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/tags/EscapeBodyTag.java
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jar/org/springframework/web/servlet/view/jasperreports/JasperReportsXlsView.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/view/jasperreports/JasperReportsHtmlView.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/handler/SimpleServletHandlerAdapter.java
/* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/mvc/multiAction/MultiActionController.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/view/jasperreports/AbstractJasperReportsView.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerMapping.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
jar/org/springframework/web/servlet/support/SessionFlashMapManager.java
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jar/org/springframework/web/servlet/mvc/method/annotation/RedirectAttributesMethodArgumentResolver.java
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jar/org/springframework/web/servlet/mvc/method/annotation/RedirectAttributesMethodReturnValueHandler.java
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
  jar/org/springframework/web/servlet/mvc/AbstractTemplateViewResolver.java
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  jar/org/springframework/web/servlet/tags/form/RequestToViewNameTranslator.java
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
  jar/org/springframework/web/servlet/tags/form/OptionWriter.java
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  jar/org/springframework/web/servlet/config/MvcNamespaceUtils.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources.jar/org/springframework/web/servlet/tags/form/AbstractDataBoundFormElementTag.java
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources.jar/org/springframework/web/servlet/tags/form/ErrorsTag.java
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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources.jar/org/springframework/web/servlet/view/tiles2/TilesConfigurer.java

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* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/servlet/mvc/annotation/ServletAnnotationMappingUtils.java

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/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * {@link #locateSource detected} during response rendering. Users can either specify
* a specific entry in the model via the [@link #setSourceKey sourceKey] property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See [@link #getSourceTypes() here]
* for more details.

* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure [@link #setOutputProperties output properties]
* to be passed to the Transformer.

*  @author Rob Harrop
*  @author Juergen Hoeller
*  @since 2.0
*/

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*  /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
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*  /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
  jar/org/springframework/web/servlet/mvc/multiaction/MethodNameResolver.java
*  /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
  jar/org/springframework/web/servlet/HandlerInterceptor.java
*  /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
  jar/org/springframework/web/servlet/mvc/multiaction/MethodNameResolver.java
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  jar/org/springframework/web/servlet/HandlerInterceptor.java
*  /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
  jar/org/springframework/web/servlet/mvc/multiaction/MethodNameResolver.java
*  /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
  jar/org/springframework/web/servlet/HandlerInterceptor.java
*  /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-
  jar/org/springframework/web/servlet/mvc/multiaction/MethodNameResolver.java
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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/mvc/method/RequestMappingInfoHandlerMapping.java
* /opt/ws_local/PERMITS_SQL/1068640596_1594426253.18/0/spring-webmvc-3-1-4-release-sources-jar/org/springframework/web/mvc/method/annotation/HttpEntityMethodProcessor.java

1.1070 zlib unknown

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1.1071 cups 1.4.2 74.el6

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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.1072 e2fsprogs 1.41.12 22.el6
1.1072.1 Available under license:

Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 - Unix SMB/CIFS implementation.
 + trivial database library - standalone version

 - trivial database library - private includes
 -
 - Copyright (C) Andrew Tridgell 2005
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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

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1.1073 commons-lang3 3.2

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1.1074 json-c 0.11 12.el6

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1.1076 atk 1.30.0 1.el6

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The End

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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1.1081 harfbuzz 0.9.32

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1.1082 libsepol 2.0.41 4.el6

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 * Adapt a SAX1 AttributeList as a SAX2 Attributes object.
 * 
 * <p>This class is in the Public Domain, and comes with NO

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/**
 * Adapt a SAX1 AttributeList as a SAX2 Attributes object.
 * *
 * <p>This class is in the Public Domain, and comes with NO
* WARRANTY of any kind.</p>
*
* <p>This wrapper class is used only when Namespace support
* is disabled -- it provides pretty much a direct mapping
* from SAX1 to SAX2, except that names and types are
* interned whenever requested.</p>
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2-
jar/com/sun/msv/writer/ContentHandlerAdaptor.java
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 * @(#)XmlChars.java 1.1 00/08/05
 *
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 */

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 *
 */
/**
 * exposes the low-level validation engine interface.
 *
 * <p>
 * represents a pseudo-automaton acceptor.
 * this interface is used to validate content models.
 *
 *
 * <h2>Perform Validation</h2>
 * <p>
 * To perform validation, call the createAcceptor method of the DocumentDeclaration
 * interface to obtain an Acceptor for validating the document element.
 *
 * <pre>
* Acceptor a = vgm.createAcceptor();
* </pre>
*
* <p>
* One acceptor is responsible for validating one element. So you also need
* some form of stack. If you are using a "push" interface like SAX, you need
* an explicit stack. If you are validating in "pull" fashion (like DOM), then
* you can use a recursion instead of an explicit stack.
* The following explanation assumes SAX-like interface.
*
* <p>
* Now, get back to the story. Whenever you encounter a start tag, create a new
* acceptor, which validates the children of newly encountered element.
*
* <pre>
* stack.push(a);
* a = a.createChildAcceptor( sti, null );
* </pre>
*
* <p>
* If this tag name was unexpected, then this method returns null. See javadoc
* for more details.
*
* <p>
* Then, for every attributes, call the {@link #onAttribute} method.
* After that you call the {@link #onEndAttributes} method.
*
* <pre><xmp>
* for( int i=0; i<atts.getLength(); i++ )
*   a.onAttribute( atts.getURI(i), .... );
* a.onEndAttributes();
* </xmp></pre>
*
* <p>
* An error can occur at any method. See the method documentations for details.
*
* <p>
* If you find an end tag, make sure that the acceptor is satisfied. An acceptor
* is said to be unsatisfied when it needs more elements/text to complete the content
* model. For example, if the content model is (A,B,C) and it only sees (A,B), then
* the acceptor is not satisfied because it needs to see C.
*
* <pre>
* if(!a.isAcceptState(null))
*   ; // error because the acceptor is unsatisfied.
* Acceptor child = a;
* a = stack.pop();
* a.stepForward(child,null);
Then, call the stepForward method of the parent acceptor and pass
the child acceptor to it.

Finally, whenever you see a text, call the onText method.
If the text was unexpected or not allowed, then this method returns null.
See the documentation for details.

In this way, you can better control the validation process.

If you need even finer control of the validation process
(e.g., you need to know the list of allowed elements/attributes),
you may want to rely on the <code>regexp</code> implementation of VGM.
see [@link com.sun.msv.verifier.regexp.REDocumentDeclaration] for detail.

In this way, you can better control the validation process.

It is often useful to downcast the Acceptor interface to appropriate
derived class. For example, if you are using
[@link com.sun.msv.verifier.regexp.REDocumentDeclaration], then you can always
downcast an Acceptor to
[@link com.sun.msv.verifier.regexp.ExpressionAcceptor], which provides
more predictable behaviors and some useful methods.

@see DocumentDeclaration

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* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2.jar/com/sun/msv/verifier/psvi/TypeDetector.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2.jar/com/sun/msv/reader/trex/NameClassNsNameState.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2.jar/com/sun/msv/reader/trex/NameClassNameState.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2.jar/com/sun/msv/util/LightStack.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2.jar/com/sun/msv/grammar/dtd/LocalNameClass.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2.jar/com/sun/msv/grammar/util/NameClassCollisionChecker.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2.jar/com/sun/msv/reader/trex/NameClassState.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2.jar/com/sun/msv/reader/trex/NameClassOwner.java
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* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2.jar/com/sun/msv/relaxns/grammar/relax/AnyOtherElementExp.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2.jar/com/sun/msv/grammar/SequenceExp.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2.jar/com/sun/msv/grammar/NamespaceNameClass.java
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* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2.jar/com/sun/msv/grammar/DataExp.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2.jar/com/sun/msv/grammar/util/NameClassSimplifier.java
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  jar/com/sun/msv/reader/PermitsSQL.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2-
  jar/com/sun/msv/reader/ExpressionWithChildState.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2-
  jar/com/sun/msv/reader/trex/classic/DataState.java

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  jar/com/sun/msv/scanner/dtd/EndOfInputException.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2-
  jar/com/sun/msv/scanner/dtd/DTDEventListener.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2-
  jar/com/sun/msv/scanner/dtd/EntityDecl.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2-
  jar/com/sun/msv/scanner/dtd/DTDParser.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2-
  jar/com/sun/msv/scanner/dtd/DTDHandlerBase.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2-
  jar/com/sun/msv/scanner/dtd/ExternalEntity.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2-
  jar/com/sun/msv/scanner/dtd/InputEntity.java

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jar/com/sun/msv/reader/xmlschema/DOMLSInputImpl.java
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jar/com/sun/msv/scanner/dtd/SimpleHashtable.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2-
jar/com/sun/msv/scanner/dtd/Resolver.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2-
jar/com/sun/msv/scanner/dtd/InternalEntity.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2-
jar/com/sun/msv/scanner/dtd/XmlReader.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2-
jar/com/sun/msv/scanner/dtd/MessageCatalog.java
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2-
jar/com/sun/msv/scanner/dtd/XmlNames.java
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*
*/
/**
* ElementPattern with type.
*
* Proprietary extension by MSV to support type-assignment in TREX.
*
@author <a href="mailto:kohsuke.kawaguchi@eng.sun.com">Kohsuke KAWAGUCHI</a>
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050353545_1591730042.53/0/msv-core-2011-1-sources-2-
jar/com/sun/msv/grammar/trex/typed/TypedElementPattern.java

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jar/com/sun/msv/util/Uri.java

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<HTML><BODY>
How it works

With this extension, &lt;element&gt; pattern in TREX pattern can have "label" attribute in http://www.sun.com/xml/msv/trex-type namespace.

```
<grammar xmlns:ext="http://www.sun.com/xml/msv/trex-type">
  <start>
    <element name="root" ext:label="root"> <choice>
      <element name="child1"/> <empty/>
      <element name="child2" ext:label="foo"> <empty/> </element>
    </choice>
  </element>
</start>
</grammar>
```

Once label is specified to &lt;element&gt; pattern, application can call Verifier.getCurrentElementType method to obtain a TypedElementPattern object, which has label field.

```
void startElement( ... ) { Object o = verifier.getCurrentElementType(); if(!( o instanceof TypedElementPattern )) { ... // the current element does not have 'label' attribute. } else { String labelOfTheCurrentElement = ((TypedElementPattern)o).label; ... // do whatever useful } }
```

1.1090 kexec-tools 2.0.0 300.el6_8.2

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Version 2, June 1991

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1.1092 libjpeg 6b
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README for release 6b of 27-Mar-1998

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

This file contains the following sections:
OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW =====

This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced “jay-peg”) is a standardized compression
method for full-color and gray-scale images. JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.
This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpegcom" and "wrjpegcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain-sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJK does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJK's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to
If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist.
We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.1093 javax-mail-api 1.4.2
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  jar/org/codehaus/jackson/JsonParser.java
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  jar/org/codehaus/jackson/Base64Variant.java
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* /opt/cola/permits/1078139635_1602070746.96/0/jackson-core-asl-1-9-0-sources-2-
  jar/org/codehaus/jackson/JsonGenerator.java
* /opt/cola/permits/1078139635_1602070746.96/0/jackson-core-asl-1-9-0-sources-2-
  jar/org/codehaus/jackson/util/ByteArrayBuilder.java

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1.1099 pciutils 3.1.10 4.el6

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1.1103 curl 7.61.1
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1.1105 servlet-api 2.2

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* /opt/cola/permits/1155513704_1619004813.5/0/servlet-api-2-2-sources-3-jar/javax/servlet/http/HttpServlet.java
* /opt/cola/permits/1155513704_1619004813.5/0/servlet-api-2-2-sources-3-jar/javax/servlet/Servlet.java
* /opt/cola/permits/1155513704_1619004813.5/0/servlet-api-2-2-sources-3-jar/javax/servlet/RequestDispatcher.java
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* /opt/cola/permits/1155513704_1619004813.5/0/servlet-api-2-2-sources-3-jar/javax/servlet/jsp/tagext/TagAttributeInfo.java
* /opt/cola/permits/1155513704_1619004813.5/0/servlet-api-2-2-sources-3-jar/javax/servlet/jsp/tagext/TagSupport.java
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* /opt/cola/permits/1155513704_1619004813.5/0/servlet-api-2-2-sources-3- jar/javax/servlet/jsp/JspTagException.java
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1.1106 u-boot 2015.01

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- distribute the source code, even though third parties are not compelled to copy the source along with the object code.
a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
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b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with
We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.1114 libffi 3.0.5 3.2.el6

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* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in
  libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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src/cg/cst_mlpg.c
src/cg/cst_mlsa.h
src/cg/cst_mlsa.c
src/cg/cst_vc.h
src/cg/cst_vc.c

/**************************************************************************/
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src/audio/au_wince.c
src/utils/cst_file_stdio.c
src/utils/cst_mmap_posix.c
src/utils/cst_mmap_win32.c
src/utils/cst_mmap_none.c
src/utils/cst_file_wince.c
sapi/

doc/alice
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src/regex/regexp.c
src/regex/regsub.c

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src/speech/rateconv.c

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lang/usenglish/us_durz_cart.h
lang/usenglish/us_int_accent_cart.c
lang/usenglish/us_int_accent_cart.h
lang/usenglish/us_int_tone_cart.c
lang/usenglish/us_int_tone_cart.h
lang/usenglish/us_phoneset.c
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configure.sub
config.guess
missing
install-sh
mkinstalldirs

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lang/cmu_grapheme_lex/grapheme_unitran_tables.c
/* Copyright 2008-2012, University of Illinois at Urbana-Champaign */
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/* http://www.apache.org/licenses/LICENSE-2.0 */
/* Original table developed by Richard Sproat and Kyoung-young Kim */
/* Ported for Festvox by Gopala Anumachipalli gopalakr@cs.cmu.edu Sep 2012 */
/* Then converted to C for CMU Flite (cmuflite.org) */

1.1119 jetty-io 8.1.7.v20120910
1.1119.1 Available under license :

//
//==------------------------------------------------------------------------==
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//==------------------------------------------------------------------------==
package org.eclipse.jetty.io;

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import org.eclipse.jetty.util.TypeUtil;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;

/**
 *
 *
 */
public abstract class AbstractBuffer implements Buffer {
    
    private static final Logger LOG = Log.getLogger(AbstractBuffer.class);

    private final static boolean __boundsChecking =
    Boolean.getBoolean("org.eclipse.jetty.io.AbstractBuffer.boundsChecking");

    private final static boolean __IMMUTABLE = "IMMUTABLE",
    __READONLY = "READONLY",
    __READWRITE = "READWRITE",
    __VOLATILE = "VOLATILE";

    protected int _access;
    protected boolean _volatile;

    protected int _get;
    protected int _put;

    protected int _hash;
    protected int _hashGet;

    }
protected int _hashPut;
protected int _mark;
protected String _string;
protected View _view;

/**
 * Constructor for BufferView
 *
 * @param access 0==IMMUTABLE, 1==READONLY, 2==READWRITE
 */
public AbstractBuffer(int access, boolean isVolatile)
{
    if (access == IMMUTABLE && isVolatile)
        throw new IllegalArgumentException("IMMUTABLE && VOLATILE");
    setMarkIndex(-1);
    _access = access;
    _volatile = isVolatile;
}

/*
 * @see org.eclipse.io.Buffer#toArray()
 */
public byte[] asArray()
{
    byte[] bytes = new byte[length()];
    byte[] array = array();
    if (array != null)
        System.arraycopy(array, getIndex(), bytes, 0, bytes.length);
    else
        peek(getIndex(), bytes, 0, length());
    return bytes;
}

public ByteArrayBuffer duplicate(int access)
{
    Buffer b=this.buffer();
    if (this instanceof Buffer.CaseInsensitive || b instanceof Buffer.CaseInsensitive)
        return new ByteArrayBuffer.CaseInsensitive(asArray(), 0, length(), access);
    else
        return new ByteArrayBuffer(asArray(), 0, length(), access);
}

/*
 * @see org.eclipse.io.Buffer#asNonVolatile()
 */
public Buffer asNonVolatileBuffer()
{
    if (!isVolatile()) return this;
}
return duplicate(_access);
}

public Buffer asImmutableBuffer()
{
    if (isImmutable()) return this;
    return duplicate(IMMUTABLE);
}

/*@  
 * @see org.eclipse.util.Buffer#asReadOnlyBuffer()
  */
public Buffer asReadOnlyBuffer()
{
    if (isReadOnly()) return this;
    return new View(this, markIndex(), getIndex(), putIndex(), READONLY);
}

public Buffer asMutableBuffer()
{
    if (!isImmutable()) return this;

    Buffer b=this.buffer();
    if (b.isReadOnly())
    {
        return duplicate(READWRITE);
    }
    return new View(b, markIndex(), getIndex(), putIndex(), _access);
}

public Buffer buffer()
{
    return this;
}

public void clear()
{
    setMarkIndex(-1);
    setGetIndex(0);
    setPutIndex(0);
}

public void compact()
{
    if (isReadOnly()) throw new IllegalStateException(__READONLY);
    int s = markIndex() >= 0 ? markIndex() : getIndex();
    if (s > 0)
    {

byte array[] = array();
int length = putIndex() - s;
if (length > 0)
{
	if (array != null)
		System.arraycopy(array(), s, array(), 0, length);
	else
		poke(0, peek(s, length));
}
if (markIndex() > 0) setMarkIndex(markIndex() - s);
setGetIndex(getIndex() - s);
setPutIndex(putIndex() - s);
}

@Override
public boolean equals(Object obj)
{
	if (obj==this)
		return true;

// reject non buffers;
if (obj == null || !(obj instanceof Buffer)) return false;
Buffer b = (Buffer) obj;

if (this instanceof Buffer.CaseInsensitve || b instanceof Buffer.CaseInsensitve)
	return equalsIgnoreCase(b);

// reject different lengths
if (b.length() != length()) return false;

// reject AbstractBuffer with different hash value
if (_hash != 0 && obj instanceof AbstractBuffer)
{
	AbstractBuffer ab = (AbstractBuffer) obj;
	if (ab._hash != 0 && _hash != ab._hash) return false;
}

// Nothing for it but to do the hard grind.
int get=getIndex();
int bi=b.putIndex();
for (int i = putIndex(); i-->get;)
{
	byte b1 = peek(i);
	byte b2 = b.peek(--bi);
	if (b1 != b2) return false;
}
return true;
public boolean equalsIgnoreCase(Buffer b)
{
    if (b==this)
        return true;

    // reject different lengths
    if (b.length() != length()) return false;

    // reject AbstractBuffer with different hash value
    if (_,hash != 0 && b instanceof AbstractBuffer)
    {
        AbstractBuffer ab = (AbstractBuffer) b;
        if (ab._hash != 0 && _hash != ab._hash) return false;
    }

    // Nothing for it but to do the hard grind.
    int get=getIndex();
    int bi=b.putIndex();

    byte[] array = array();
    byte[] barray = b.array();
    if (array!=null && barray!=null)
    {
        for (int i = putIndex(); i-->get;)
        {
            byte b1 = array[i];
            byte b2 = barray[--bi];
            if (b1 != b2)
            {
                if ('a' <= b1 && b1 <= 'z') b1 = (byte) (b1 - 'a' + 'A');
                if ('a' <= b2 && b2 <= 'z') b2 = (byte) (b2 - 'a' + 'A');
                if (b1 != b2) return false;
            }
        }
    }
    else
    {
        for (int i = putIndex(); i-->get;)
        {
            byte b1 = peek(i);
            byte b2 = b.peek(--bi);
            if (b1 != b2)
            {
                if ('a' <= b1 && b1 <= 'z') b1 = (byte) (b1 - 'a' + 'A');
                if ('a' <= b2 && b2 <= 'z') b2 = (byte) (b2 - 'a' + 'A');
                if (b1 != b2) return false;
            }
        }
    }
}
public byte get()
{
    return peek(_get++);
}

public int get(byte[] b, int offset, int length)
{
    int gi = getIndex();
    int l=length();
    if (l==0)
        return -1;

    if (length>l)
        length=l;

    length = peek(gi, b, offset, length);
    if (length>0)
        setGetIndex(gi + length);
    return length;
}

public Buffer get(int length)
{
    int gi = getIndex();
    Buffer view = peek(gi, length);
    setGetIndex(gi + length);
    return view;
}

public final int getIndex()
{
    return _get;
}

public boolean hasContent()
{
    return _put > _get;
}

@Override
public int hashCode()
{
if (_hash == 0 || _hashGet!=_get || _hashPut!=_put)
{
    int get=getIndex();
    byte[] array = array();
    if (array==null)
    {
        for (int i = putIndex(); i-- >get;)
        {
            byte b = peek(i);
            if ('a' <= b &amp; b <= 'z')
                b = (byte) (b - 'a' + 'A');
            _hash = 31 * _hash + b;
        }
    }
    else
    {
        for (int i = putIndex(); i-- >get;)
        {
            byte b = array[i];
            if ('a' <= b &amp; b <= 'z')
                b = (byte) (b - 'a' + 'A');
            _hash = 31 * _hash + b;
        }
    }
    if (_hash == 0)
    {
        _hash = -1;
        _hashGet=_get;
        _hashPut=_put;
    }
    return _hash;
}

public boolean isImmutable()
{
    return _access <= IMMUTABLE;
}

public boolean isReadOnly()
{
    return _access <= READONLY;
}

public boolean isVolatile()
{
    return _volatile;
}
public int length()
{
    return _put - _get;
}

public void mark()
{
    setMarkIndex(_get - 1);
}

public void mark(int offset)
{
    setMarkIndex(_get + offset);
}

public int markIndex()
{
    return _mark;
}

public byte peek()
{
    return peek(_get);
}

public Buffer peek(int index, int length)
{
    if (_view == null)
    {
        _view = new View(this, -1, index, index + length, isReadOnly() ? READONLY : READWRITE);
    }
    else
    {
        _view.update(this.buffer());
        _view.setMarkIndex(-1);
        _view.setGetIndex(0);
        _view.setPutIndex(index + length);
        _view.setGetIndex(index);
    }
    return _view;
}

public int poke(int index, Buffer src)
{
    _hash=0;
    /*
    if (isReadOnly())
    */

throw new IllegalStateException(__READONLY);
if (index < 0)
    throw new IllegalArgumentException("index<0: " + index + "<0");
*/

int length=src.length();
if (index + length > capacity())
{
    length=capacity()-index;
    /*
    if (length<0)
        throw new IllegalArgumentException("index>capacity(): " + index + "">" + capacity());
    */
}

byte[] src_array = src.array();
byte[] dst_array = array();
if (src_array != null && dst_array != null)
    System.arraycopy(src_array, src.getIndex(), dst_array, index, length);
else if (src_array != null)
{
    int s=src.getIndex();
    for (int i=0;i<length;i++)
        poke(index++,src_array[s++]);
}
else if (dst_array != null)
{
    int s=src.getIndex();
    for (int i=0;i<length;i++)
        dst_array[index++]=src.peek(s++);
}
else
{
    int s=src.getIndex();
    for (int i=0;i<length;i++)
        poke(index++,src.peek(s++));
}

return length;
}

public int poke(int index, byte[] b, int offset, int length)
{
    _hash=0;
    /*
    if (isReadOnly())
        throw new IllegalStateException(__READONLY);
    */
if (index < 0)
    throw new IllegalArgumentException("index<0: " + index + "<0");
*/
if (index + length > capacity())
{
    length=capacity()-index;
    /* if (length<0)
    throw new IllegalArgumentException("index>capacity(): " + index + ">" + capacity());
    */
}

byte[] dst_array = array();
if (dst_array != null)
    System.arraycopy(b, offset, dst_array, index, length);
else
{
    int s=offset;
    for (int i=0;i<length;i++)
        poke(index++,b[s++]);
}
return length;
}

public int put(Buffer src)
{
    int pi = putIndex();
    int l=poke(pi, src);
    setPutIndex(pi + l);
    return l;
}

public void put(byte b)
{
    int pi = putIndex();
    poke(pi, b);
    setPutIndex(pi + 1);
}

public int put(byte[] b, int offset, int length)
{
    int pi = putIndex();
    int l = poke(pi, b, offset, length);
    setPutIndex(pi + l);
    return l;
}

public int put(byte[] b)
{
int pi = putIndex();
int l = poke(pi, b, 0, b.length);
setPutIndex(pi + l);
return l;
}

public final int putIndex()
{
    return _put;
}

public void reset()
{
    if (markIndex() >= 0) setGetIndex(markIndex());
}

public void rewind()
{
    setGetIndex(0);
    setMarkIndex(-1);
}

public void setGetIndex(int getIndex)
{
    /* bounds checking
    if (isImmutable())
        throw new IllegalStateException(__IMMUTABLE);
    if (getIndex < 0)
        throw new IllegalArgumentException("getIndex<0: " + getIndex + ", <0");
    if (getIndex > putIndex())
        throw new IllegalArgumentException("getIndex>putIndex: " + getIndex + ", >" + putIndex());
    */
    _get = getIndex;
    _hash=0;
}

public void setMarkIndex(int index)
{
    /*
    if (index>=0 && isImmutable())
        throw new IllegalStateException(__IMMUTABLE);
    */
    _mark = index;
}

public void setPutIndex(int putIndex)
{
    /* bounds checking
if (isImmutable())
    throw new IllegalStateException(__IMMUTABLE);
if (putIndex > capacity())
    throw new IllegalArgumentException("putIndex>capacity: " + putIndex + ">" + capacity());
if (getIndex() > putIndex)
    throw new IllegalArgumentException("getIndex>putIndex: " + getIndex() + ">" + putIndex);
*/
_put = putIndex;
_hash=0;
}

public int skip(int n)
{
    if (length() < n) n = length();
    setGetIndex(getIndex() + n);
    return n;
}

public Buffer slice()
{
    return peek(getIndex(), length());
}

public Buffer sliceFromMark()
{
    return sliceFromMark(getIndex() - markIndex() - 1);
}

public Buffer sliceFromMark(int length)
{
    if (markIndex() < 0) return null;
    Buffer view = peek(markIndex(), length);
    setMarkIndex(-1);
    return view;
}

public int space()
{
    return capacity() - _put;
}

public String toDetailString()
{
    StringBuilder buf = new StringBuilder();
    buf.append("[");
    buf.append(super.hashCode());
    buf.append(",");
    buf.append(this.buffer().hashCode());
    buf.append(","闻");
    buf.append(this.buffer().hashCode());
    buf.append(
}
buf.append("m=");
buf.append(markIndex());
buf.append("g=");
buf.append(getIndex());
buf.append("p=");
buf.append(putIndex());
buf.append("c=");
buf.append(capacity());
buf.append("}={
if (markIndex() >= 0)
{
    for (int i = markIndex(); i < getIndex(); i++)
    {
        byte b = peek(i);
        TypeUtil.toHex(b, buf);
    }
    buf.append("} ");
}
int count = 0;
for (int i = getIndex(); i < putIndex(); i++)
{
    byte b = peek(i);
    TypeUtil.toHex(b, buf);
    if (count++ == 50)
    {
        if (putIndex() - i > 20)
        {
            buf.append(" ... ");
            i = putIndex() - 20;
        }
    }
}
buf.append('}');
return buf.toString();

/* ------------------------------- */
@Override
public String toString()
{
    if (isImmutable())
    {
        if (_string == null)
        {
            _string = new String(asArray(), 0, length());
            return _string;
        }
    return new String(asArray(), 0, length());
}
public String toString(String charset)
{
    try
    {
        byte[] bytes = array();
        if (bytes != null)
            return new String(bytes, getIndex(), length(), charset);
        return new String(asArray(), 0, length(), charset);
    }
    catch (Exception e)
    {
        LOG.warn(e);
        return new String(asArray(), 0, length());
    }
}

public String toDebugString()
{
    return getClass() + "@" + super.hashCode();
}

public void writeTo(OutputStream out)
throws IOException
{
    byte[] array = array();

    if (array != null)
    {
        out.write(array, getIndex(), length());
    }
    else
    {
        int len = this.length();
        byte[] buf = new byte[len > 1024 ? 1024 : len];
        int offset = _get;
        while (len > 0)
        {
            int l = peek(offset, buf, 0, len > buf.length ? buf.length : len);
            out.write(buf, 0, l);
            offset += l;
            len -= l;
        }
    }
}
clear();
}

/* ----------------------------------------------- */
public int readFrom(InputStream in, int max) throws IOException
{
    byte[] array = array();
    int s = space();
    if (s > max)
        s = max;

    if (array != null)
    {
        int l = in.read(array, _put, s);
        if (l > 0)
            _put += l;
        return l;
    }
    else
    {
        byte[] buf = new byte[s > 1024 ? 1024 : s];
        int total = 0;
        while (s > 0)
        {
            int l = in.read(buf, 0, buf.length);
            if (l < 0)
                return total > 0 ? total : -1;
            int p = put(buf, 0, l);
            assert l == p;
            s -= l;
        }
        return total;
    }
}

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# This file contains a list of people who've made non-trivial # contribution to the Google C++ Testing Framework project. People # who commit code to the project are encouraged to add their names # here. Please keep the list sorted by first names.

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1.1121 httpcomponents-httpcore 4.1.2

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