Open Source Used In Finesse Software 12.6(1)

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Contents

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   1.1.1 Available under license
1.2 dosfs-tools 3.0.20 9.el7
   1.2.1 Available under license
1.3 commons-codec 1.9
   1.3.1 Available under license
1.4 datatype 1.3.03
   1.4.1 Available under license
1.5 commons-beanutils-core 1.7.0
   1.5.1 Available under license
1.6 jetty-servlet 7.5.4.v20111024
1.7 hibernate-core 3.6.3.Final
   1.7.1 Available under license
1.8 httpcomponents-httpcore 4.1.2
   1.8.1 Available under license
1.9 jersey-bundle 1.18.1
   1.9.1 Available under license
1.10 commons-configuration 1.5
   1.10.1 Available under license
1.11 icu 57
   1.11.1 Available under license
1.12 iproute 4.11.0 14.el7
   1.12.1 Available under license
1.13 linux-kernel 3.4.110
   1.13.1 Available under license
1.14 struts 1.2.9
1.14.1 Available under license
1.15 jersey-client 2.13
  1.15.1 Available under license
1.16 cxf-rt-rs-security-xml 2.7.14
  1.16.1 Available under license
1.17 xpp3-min 1.1.4c
  1.17.1 Notifications
  1.17.2 Available under license
1.18 googleauthlibraryoauthhttp 0.10.0
  1.18.1 Available under license
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  1.19.1 Available under license
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  1.20.1 Available under license
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  1.24.1 Available under license
1.25 slf4j 1.7.7
  1.25.1 Available under license
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  1.26.1 Available under license
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1.28 cxf-rt-databinding-jaxb 2.7.14
  1.28.1 Available under license
1.29 saxon-dom 8.7
  1.29.1 Available under license
1.30 vim 7.4.160 5.el7
  1.30.1 Available under license
1.31 bash 4.3.30
  1.31.1 Available under license
1.32 commons-scxml 0.9
  1.32.1 Available under license
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1.34 jackson-core-asl 1.9.2
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   1.35.1 Available under license
1.36 binutils 2.27
1.37 jersey-client 2.10.1
   1.37.1 Available under license
1.38 jackson-mapper-asl 1.7.4
   1.38.1 Available under license
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   1.39.1 Available under license
1.40 noggit 0.5
1.41 xalan 2.7.0
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1.43 linux-kernel 2.4.20
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1.44 bouncy-castle 1.60
   1.44.1 Available under license
1.45 lsscsi 0.27 6.el7
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   1.46.1 Available under license
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1.49 httpcomponents-core 4.4.10
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1.50 linux-kernel 3.16.38
   1.50.1 Available under license
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   1.51.1 Available under license
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1.54 tinder 1.3.0-SNAPSHOT
1.54.1 Available under license
1.55 mongoose 3.1
1.55.1 Available under license
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1.56.1 Available under license
1.57 activemq-pool 5.5.1
1.57.1 Available under license
1.58 realmd 0.16.1 11.el7
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1.60 commons-io 2.0
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1.61 jersey-bundle 1.5
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1.66.1 Available under license
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1.67.1 Available under license
1.68 groff 1.22.2 8.el7
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1.69 commons-lang3 2.5
1.69.1 Available under license
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1.70.1 Available under license
1.71 openssl 1.0.1
1.71.1 Available under license
1.72 busybox 1.9.1
1.72.1 Available under license
1.73 harfbuzz 0.9.36 1.el7
1.73.1 Available under license
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1.74.1 Available under license
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   1.75.1 Available under license
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   1.76.1 Available under license
1.77 doc-ready 1.0.3
1.78 jbcrypt 0.3m
   1.78.1 Available under license
1.79 expression 3.0.5.RELEASE
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1.80 jackson-jaxrs-base 2.11.2
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1.87 polkit 0.112-26.el7
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   1.89.1 Available under license
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   1.162.1 Available under license

1.163 httpClient 4.2.6
   1.163.1 Available under license

1.164 struts2-bean-validation-plugin 2.5.22
   1.164.1 Available under license

1.165 libjpeg 8b
   1.165.1 Notifications
   1.165.2 Available under license

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   1.166.1 Available under license

1.167 less 458 9.el7
   1.167.1 Available under license

1.168 atk 1.30.0
   1.168.1 Available under license

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   1.169.1 Available under license

1.170 tomcat-el-api 8.0.43
   1.170.1 Available under license

1.171 libpciaccess 0.13.4 3.el7_3
   1.171.1 Available under license

1.172 jaxb-api 1.0.6
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   1.173.1 Available under license

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1.180 httpcomponents-core 4.4.6
   1.180.1 Available under license
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   1.183.1 Available under license
1.184 tar 1.26-35.el7_6
   1.184.1 Available under license
1.185 libpwquality 1.2.3 5.el7
   1.185.1 Available under license
1.186 svgxuse 1.2.6
   1.186.1 Available under license
1.187 tools-ant 1.8.1
   1.187.1 Available under license
1.188 elfutils 0.176-2.el7_6
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   1.190.1 Available under license
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1.198 jetty 8.1.15.v20140411

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Open Source Used In Finesse Software 12.6(1) 11
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1.217 guice-multibindings 2.0
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1.224 spring-expression 3.0.7.RELEASE
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1.9 jersey-bundle 1.18.1

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1.11 icu 57

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)
## Flags for position independent code

SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path

LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name

LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options

LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

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

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

## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN\_DEPS\_c\) $< \
| sed "\(\s/([^/])\)/o[:\][^\(A\-z\)]/g\" > $@; \
[ -s $@ ] || rm -f $@’

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN\_DEPS\_cc\) $< \
| sed "\(\s/([^/])\)/o[:\][^\(A\-z\)]/g\" > $@; \
[ -s $@ ] || rm -f $@’
## Versioned libraries rules

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

## Bind internal references

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

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

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

## End BSD-specific setup

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 */
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 * @param accessToken the access token
 * @return the credentials instance
 * @deprecated Use { @link #create(AccessToken)} instead. This method will be deleted in a later
 * version.
 */
/**
 * Constructor with explicit access token.
 * @param accessToken Initial or temporary access token.
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* /opt/ws_local/PERMITS_SQL/1047240153_1590260335.39/0/google-auth-library-oauth2-http-0-10-0-sources-
* jar/com/google/auth/oauth2/OAuth2Credentials.java
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 */
**/

/**
 * Returns the credentials instance from the given access token.
 *
 * @param accessToken the access token
 * @return the credentials instance
 * @deprecated Use {@link #create(AccessToken)} instead. This method will be deleted in a later
 * version.
 */
**/
* Constructor with explicit access token.
* 
* @param accessToken Initial or temporary access token.
* @deprecated Use {@link #create(AccessToken)} instead. This constructor will either be deleted
* or made protected/private in a later version.
* **/

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* /opt/ws_local/PERMITS_SQL/1047240153_1590260335.39/0/google-auth-library-oauth2-http-0-10-0-sources-
jar/com/google/auth/oauth2/GoogleCredentials.java

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 */

/**
 * Returns a credentials instance from the given transport factory
 * @param transportFactory The Http transport factory
 * @return the credential instance
 * @deprecated Use {@link #newBuilder()} instead. This constructor will either be deleted or made
 * private in a later version.
 */

/**
 * Create a new ComputeEngineCredentials instance with default behavior.
 * @deprecated Use {@link #create()} instead. This constructor will either be deleted or
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/**
 * Constructs a client ID using an explicit ID and secret
 *
 * <p>Note: Direct use of this constructor in application code is not recommended to avoid
 * having secrets or values that need to be updated in source code.
 *
 * @param clientId Text identifier of the Client ID.
 * @param clientSecret Secret to associated with the Client ID.
 * @deprecated Use { @link #of(String, String)} instead. This constructor will either be deleted
 * or made private in a later version.
 */

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/**
 * @deprecated Use {@link #create(int)} instead. This method will be deleted in a later version.
 */
/**
 * @deprecated Use {@link #create(int)} instead. This constructor will either be deleted or
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 */

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/**
* Constructor with minimum identifying information.
*
* @param clientId Client ID of the service account from the console. May be null.
* @param clientEmail Client email address of the service account from the console.
* @param privateKey RSA private key object for the service account.
* @param privateKeyId Private key identifier for the service account. May be null.
* @deprecated Use {@link #newBuilder()} instead. This constructor will either be deleted or made
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*/

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*/
/**
 * Constructor with minimum identifying information.
 *
 * @param clientId Client ID of the service account from the console. May be null.
 * @param clientEmail Client email address of the service account from the console.
 * @param privateKey RSA private key object for the service account.
 * @param privateKeyId Private key identifier for the service account. May be null.
 * @param scopes Scope strings for the APIs to be called. May be null or an empty collection,
 * which results in a credential that must have createScoped called before use.
 * @deprecated Use { @link #newBuilder() } instead. This constructor will either be deleted or made
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/**
 * Constructor with minimum information and default behavior.
 *
 * @param clientId Client ID of the credential from the console.
 * @param clientSecret Client ID of the credential from the console.
 * @param refreshToken A refresh token resulting from a OAuth2 consent flow.
 * @deprecated Use {@link #newBuilder()} instead. This constructor will either be deleted or made
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/**
 * Constructor with minimal parameters.
 *
 * @param clientId Client ID to identify the OAuth2 consent prompt.
 * @param scopes OAuth2 scopes defining the user consent.
 * @param tokenStore Implementation of component for long term storage of tokens.
 * @deprecated Use {@link #newBuilder()} instead. This constructor will either be deleted or made
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Ty Coon, President of Vice

That's all there is to it!

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```

saxon-dom-source-12-2/net/sf/saxon/sort/GenericSorter.java:
/*
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*/
saxon-dom-source-12-2/net/sf/saxon/expr/Tokenizer.java:
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original version of this module was derived:

--------------------------------------------------------------------------------
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1.30 vim 7.4.160 5.el7
1.30.1 Available under license:

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

VIM REFERENCE MANUAL  by Bram Moolenaar

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

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

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

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

=== begin of license ===

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

II) It is allowed to distribute a modified (or extended) version of Vim,
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conditions are met:
1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in
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b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

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- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.

- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the "":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

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

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

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

=== end of license ===

Note:

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

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

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

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

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

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

==============================================================================
Kibaale Children's Centre	*KCC* *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
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

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

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

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

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

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is: Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

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

Address to send checks to:
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
syn region psfQuotString  start=+"+ skip=+"+ end=+"+ contained

syn match  psfObjTag    \[\[-_+A-Z0-9a-z]\]+(\[\[-_+A-Z0-9a-z]\]+\]+)* contained
syn match  psfAttAbbrev  \.\[\[fa\|fr\|[aclqrsv]\]\]<>(\[\<\|\>|\<=\|\>=\|\==\]::<\]+\]+)* contained
syn match  psfObjTags   \[\[-_+A-Z0-9a-z]\]+(\[\[-_+A-Z0-9a-z]\]+\]+)*(\[\s+\[-_+A-Z0-9a-z]\]+(\[\[-_+A-Z0-9a-z]\]+\]+)\]+)* contained

syn match  psfNumber    \d+ contained
syn match  psfFloat     \d+\.(\d+)? contained

syn match  psfLongDate  \d{4}\d{2}\d{2}\d{2}\d{2}\d{2} contained

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

syn keyword psfBoolean  false true 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

syn region psfAttUnquotString matchgroup=psfAttrib start="^\s*[^# \t\]\+[^#]" rs=e-1
contains=psfUnquotString,psfComment end="$" keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start="^\s*[^# \t\]\+\"" rs=e-1
contains=psfQuotString,psfComment skip="^\"" ~ matchgroup=psfQuotString end="" ~ keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="^\s*tag\s+" contains=psfObjTag,psfComment end="$" keepend oneline

syn region psfAttSpec matchgroup=psfAttrib
start="^\s*\(ancestor\|applied_patches\|applied_to\|contents\|corequisites\|exrequisites\|prerequisites\|software_spec\|
 supersedes\|superseded_by\)\s+" contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend

syn region psfAttTags matchgroup=psfAttrib start="^\s*all_filesets\s+" contains=psfObjTags,psfComment end="$" keepend oneline

syn region psfAttNumber matchgroup=psfAttrib
start="^\s*\(compressed_size\|instance_id\|media_sequence_number\|sequence_number\|size\)\s+" contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib
start="^\s*\(create_time\|ctime\|mod_time\|mtime\|timestamp\)\s+" 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 ".*$"
" Define 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
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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1.39 lzo 2.06 8.el7

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* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-jar/org/springframework/beans/factory/config/MergedBeanDefinitionPostProcessor.java
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   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent
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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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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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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)
*
* 10/5/97 - 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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* * 
* M. Welsh, 6 July 1996
* * 
* */

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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.]

Preamble

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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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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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(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.

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

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

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

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

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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)
 * *
 * 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 the initial saa7146 driver and its recent overhaul

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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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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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1.54 tinder 1.3.0-SNAPSHOT

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<title>Ignite Realtime</title>
<description>Tinder is a Java based XMPP library, providing an implementation for XMPP stanzas and components. Tinders origins lie in code that's shared between Jive Software's Openfire and Whack implementations. The implementation that's provided in Tinder hasn't been written again from scratch. Instead, code has been moved from the original projects into Tinder, preserving all of the existing features and functionality. Most of the code that's now in Tinder is based on the org.xmpp package implementation that previously existed in Openfire and Whack. This is the code that defines classes such as Packet, JID, IQ, Component and their extensions. Additionally, some multi-purpose code (such as the DataForm and Result Set Management implementations have been moved to Tinder as well.</description>

<url>http://www.igniterealtime.org/projects/tinder/</url>

<inceptionYear>2009</inceptionYear>

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1.55 mongoose 3.1
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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.
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    src/preproc/grn/gprint.h
    src/preproc/grn/hdb.cpp
    src/preproc/grn/hgraph.cpp
    src/preproc/grn/hpoint.cpp
    src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

    src/devices/xditview/DESC.in
    src/devices/xditview/Dvi.c
    src/devices/xditview/Dvi.h
    src/devices/xditview/DviP.h
    src/devices/xditview/FontMap
    src/devices/xditview/GXditview.ad
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The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

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tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meref.me
Hyphenation Patterns
-----------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

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Local Variables:
ispell-local-pdict: "ispell-dict"
End:
AUTHOR
-------
Peter Schaffter (peter@schaffter.ca)
1-355 Lafontaine Ave
Ottawa (ON) K1L 6X6

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1.73 harfbuzz 0.9.36 1.el7

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1.74 grub2 2.02-0.87.0.5.el7

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 * $Revision: 1.2 $
 * $Date: 2003/04/06 20:37:31 $
 * $Author: rdonkin Exp $
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  required: true
  pattern: Trial|Commercial

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  required: true

"Licensee":


type: String
required: true

"Max clients":
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required: true
range:
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"Edition":
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pattern: FX|EX

"Expiration date":
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- sessions
- ehcache
- quartz

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- ehcache
- quartz
- sessions
- server striping
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- authentication
- ehcache
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<tr>
<th>Name</th>
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</thead>
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<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
</tr>
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* case '\'
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() [] {}

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* /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-jar/org/springframework/expression/spel/SpelParseException.java
* /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-jar/org/springframework/expression/spel/SpelEvaluationException.java
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* /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2.jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2.jar/org/springframework/expression/spel/support/InlineList.java
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  * /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
  * /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
  * /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-jar/org/springframework/expression/spel/ast/IntLiteral.java
  * /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
  * /opt/cola/permits/1069084543_1608551769.43/0/spring-expression-3-0-5-release-sources-2-jar/org/springframework/expression/spel/ast/ConstructorReference.java
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* /opt/cola/permits/1136045066_1613664947.71/0/aws-java-sdk-kms-1-11-61-sources-1.jar/com/amazonaws/services/kms/model/CreateAliasRequest.java
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* /opt/cola/permits/1136045066_1613664947.71/0/aws-java-sdk-kms-1-11-61-sources-1.jar/com/amazonaws/services/kms/model/DecryptRequest.java
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Decrypted plaintext data. This value may not be returned if the customer master key is not available or if you 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.

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.

{ByteBuffer}s are stateful. Calling their {get} methods changes their {position}. We recommend using {ByteBuffer#asReadOnlyBuffer()} to create a read-only view of the buffer with an independent {position}, and calling {get} methods on this rather than directly on the returned {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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* /opt/cola/permits/1136045066_1613664947.71/0/aws-java-sdk-kms-1-11-61-sources-1-
* jar/com/amazonaws/services/kms/model/DecryptResult.java

1.83 activemq-spring 5.5.1

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1.84 simple 2.7

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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/transform/BigIntegerTransform.java
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 * Function.java February 2008
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* LabelKey.java April 2012
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* PathException.java July 2010
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/PathException.java
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 * Instantiator.java December 2009
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-<hidden>/simple-xml-2-7-sources-jar/</hidden>org/simpleframework/xml/convert/RegistryStrategy.java

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 * Introspector.java February 2005
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* PackageMatcher.java May 2007
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* BigDecimalTransform.java May 2007
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 * CycleException.java April 2007
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 * EmptyExpression May 2007
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jar/org/simpleframework/xml/core/PrimitiveException.java
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* PrimitiveArray.java July 2006
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jar/org/simpleframework/xml/core/PrimitiveArray.java
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* ExtractorFactory.java March 2011
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jar/org/simpleframework/xml/core/CompositeInlineMap.java
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Found in path(s):
* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/ElementException.java
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 * ElementMapParameter.java July 2009
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/ElementMapParameter.java
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 * ArrayInstance.java January 2007
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/ArrayInstance.java
No license file was found, but licenses were detected in source scan.
Found in path(s):
* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/stream/EventReader.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/stream/DefaultType.java
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/*
* Cache.java July 2006
*/

/*
* DefaultType.java January 2010
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* PrimitiveList.java July 2006
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/PrimitiveList.java
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* DetailScanner.java July 2012
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* /opt/cola/permits/1000543910_1611204975.98/0/simple-xml-2-7-sources-jar-xml/simple-xml-2-7-sources-
  jar/org/simpleframework/xml/core/DetailScanner.java
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* TextLabel.java April 2007
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* /opt/cola/permits/1000543910_1611204975.98/0/simple-xml-2-7-sources-jar-xml/simple-xml-2-7-sources-
  jar/org/simpleframework/xml/core/TextLabel.java
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* ObjectInstance.java April 2007
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/ObjectInstance.java
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 * ClassType.java January 2010
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/ClassType.java
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 * InstantiatorBuilder.java July 2011
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Procurement:
* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/InstantiatorBuilder.java

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* NamespaceMap.java July 2008
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/stream/NamespaceMap.java

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* Visitor.java January 2010
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/strategy/Visitor.java
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 * Reference.java May 2006
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 * PathParser.java November 2010
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-
  jar/org/simpleframework/xml/core/PathParser.java
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 * StackFilter.java May 2006
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-
  jar/org/simpleframework/xml/filter/StackFilter.java
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 * LabelMap.java July 2006
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  jar/org/simpleframework/xml/core/LabelMap.java
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* Strategy.java July 2006
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  jar/org/simpleframework/xml/strategy/Strategy.java
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 * ElementListUnionParameter.java July 2009
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* GroupExtractor.java March 2011
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/AttributeParameter.java
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 * EnumTransform.java May 2007
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 * CacheParameter.java April 2012
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 * Model.java November 2010
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jar/org/simpleframework/xml/core/Model.java
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 * Policy.java November 2010
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jar/org/simpleframework/xml/core/Policy.java
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 * NamespaceList.java July 2008
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 * ByteTransform.java May 2007
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* Serializer.java July 2006
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* ElementListLabel.java July 2006
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 * ElementMapLabel.java July 2007
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 * CamelCaseStyle.java July 2008
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 * Instantiate.java July 2006
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 * ElementList.java July 2006
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 * StringTransform.java May 2007
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Match.java March 2002

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CompositeMap.java July 2007

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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/Collector.java
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* ConvertException.java January 2010
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-
jar/org/simpleframework/xml/convert/ConvertException.java
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-
jar/org/simpleframework/xml/core/Structure.java
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 * URLTransform.java May 2007
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* Validate.java July 2006
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* TreeStrategy.java July 2006
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/strategy/TreeStrategy.java

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 * Group.java March 2011
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/Group.java

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 * Scanner.java January 2010
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jar/org/simpleframework/xml/core/NamespaceDecorator.java
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 * Builder.java July 2008
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/stream/OutputStack.java
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 * Transient.java June 2007
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 * MethodName.java April 2007
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/stream/PullReader.java
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/PersistenceException.java
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* CamelCaseBuilder.java July 2008
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  jar/org/simpleframework/xml/stream/CamelCaseBuilder.java
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/Comparer.java
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* ContactMap.java January 2010
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/ContactMap.java
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* ExpressionBuilder.java November 2010
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/ExpressionBuilder.java
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* Filter.java May 2006
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jar/org/simpleframework/xml/core/ConversionInstance.java
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 * ElementListParameter.java July 2009
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/ElementListParameter.java
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 * LinkedCache.java July 2012
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* Repeater.java July 2007
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jar/org/simpleframework/xml/core/Repeater.java
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jar/org/simpleframework/xml/core/Detail.java
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 * MethodPartFactory.java April 2007
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 * OutputNodeMap.java July 2006
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/stream/OutputNodeMap.java

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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-7283763.zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/stream/InputNodeMap.java
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* MethodException.java July 2006
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* NodeReader.java July 2006
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 * ArrayMatcher.java May 2007
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  jar/org/simpleframework/xml/stream/PullProvider.java
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* ElementListUnionLabel.java March 2011
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-1.zip/simple-xml-2-7-sources-
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/Attribute.java

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 * Attribute.java July 2006
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/stream/OutputBuffer.java
jar/org/simpleframework/xml/util/WeakCache.java
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 * Convert.java January 2010
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 * TextListLabel.java December 2012
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/TextListLabel.java
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 * AnnotationFactory.java January 2010
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 * TextException.java April 2007
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/TextException.java
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/* ElementArrayParameter.java July 2009

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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/ElementArrayParameter.java
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 * OutputAttribute.java July 2006
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*/opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/CacheLabel.java
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 * ElementMapUnionParameter.java July 2009
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/stream/NodeExtractor.java
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/stream/NodeWriter.java
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* ArrayFactory.java July 2006
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/ArrayFactory.java
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/PrimitiveValue.java

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jar/org/simpleframework/xml/transform/GregorianCalendarTransform.java
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* BooleanTransform.java May 2007
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jar/org/simpleframework/xml/transform/BooleanTransform.java
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* ModelMap.java November 2010
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 * ElementParameter.java July 2009
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jar/org/simpleframework/xml/stream/InputStack.java
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/Expression.java
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-clip/simple-xml-2-7-sources-
* jar/org/simpleframework/xml/stream/DocumentProvider.java

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* jar/org/simpleframework/xml/core/ParameterMap.java

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jar/org/simpleframework/xml/transform/StringArrayTransform.java
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jar/org/simpleframework/xml/strategy/WriteState.java
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  jar/org/simpleframework/xml/core/LabelGroup.java
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/Creator.java
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 * ConverterFactory.java January 2010
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 * DocumentReader.java January 2010
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 * AttributeException.java July 2006
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jar/org/simpleframework/xml/convert/Registry.java

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* ElementMapUnion.java March 2011
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jar/org/simpleframework/xml/ElementMapUnion.java

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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/transform/DateTransform.java
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/PrimitiveScanner.java

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 * StreamReader.java January 2010
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 * ParameterContact.java April 2007
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* ConstructorException.java July 2009
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* InstantiationException.java July 2006
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* Traverser.java July 2006
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 * ContactList.java April 2007
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 * StreamProvider.java January 2010
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* FloatTransform.java May 2007
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* OverrideType.java January 2010
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  jar/org/simpleframework/xml/core/Extractor.java
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 * ModelList.java November 2010
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 * LabelFactory.java July 2006
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 * Primitive.java July 2006
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/ClassInstantiator.java
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 * ClassInstantiator.java December 2009
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 * AtomicLongTransform.java January 2013
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* EmptyMatcher.java May 2007
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/EmptyMatcher.java

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  jar/org/simpleframework/xml/core/Composite.java
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/stream/Stack.java

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* TemplateEngine.java May 2005
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jar/org/simpleframework/xml/strategy/Loader.java
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* Criteria.java December 2009
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jar/org/simpleframework/xml/core/Criteria.java
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* CycleStrategy.java April 2007
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* /opt/cola/permits/1000543900_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/stream/ProviderFactory.java

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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-
jar/org/simpleframework/xml/stream/NodeStack.java
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* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/ClassSchema.java
* /opt/cola/permits/1000543910_1611294975.98/0/simple-xml-2-7-sources-jar-zip/simple-xml-2-7-sources-jar/org/simpleframework/xml/core/Schema.java

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SessionManager May 2010

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ModelAssembler.java November 2010

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1.101 zlib 1.2.8

1.101.1 Available under license:

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

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* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-jar/org/springframework/web/context/support/GroovyWebApplicationContext.java
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1.105 protobuf-java 2.5.0

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1.111 httpcore-nio 4.2.4

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QLogic Linux FC-FCoE Driver

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#ifndef __LICENSE_H
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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);
}
#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.
 * 
 * Ordinary Used In Finesso Software 12.6(1) 1288
* 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 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>
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Felix Domke <tmbinc@elitedvb.net>
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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>
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/Headpauge 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>
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Wilson Michaels <wilsonmichaels@earthlink.net>
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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  
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  jar/io/netty/util/internal/ObjectUtil.java
* /opt/cola/permits/1068382713_1611892058.42/0/netty-common-4-0-27-final-sources-
  jar/io/netty/util/collection/IntObjectMap.java
* /opt/cola/permits/1068382713_1611892058.42/0/netty-common-4-0-27-final-sources-
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* /opt/cola/permits/1068382713_1611892058.42/0/netty-common-4-0-27-final-sources-jar/io/netty/util/internal/logging/MessageFormatter.java
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* /opt/cola/permits/1068382713_1611892058.42/0/netty-common-4-0-27-final-sources-
jar/io/netty/util/internal/chmv8/ConcurrentHashMapV8.java
* /opt/cola/permits/1068382713_1611892058.42/0/netty-common-4-0-27-final-sources-
jar/io/netty/util/internal/chmv8/ForkJoinTask.java
* /opt/cola/permits/1068382713_1611892058.42/0/netty-common-4-0-27-final-sources-
jar/io/netty/util/internal/chmv8/ForkJoinPool.java
* /opt/cola/permits/1068382713_1611892058.42/0/netty-common-4-0-27-final-sources-
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1.118 es6-enum 1.1.0

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1.119 jackson-core 2.12.1
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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 been in development since 2007. It is currently developed by a community of developers.

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1.120 mesa 10.6.5 3.20150824.el7

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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>
Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> > What we meant with that is that we made an exception for clause 2.
> > Instead of clause 2, in the case of the Mesa project, you have to name
> > the technique Jimenez's MLAA in the config options of Mesa. We did that
> > just to allow them to solve license issues. This exception should be for
> > the Mesa project, and any project using Mesa, like Fedora.
> >
> > We want to widespread usage of our MLAA, so we want to avoid any kind of
> > license complications. Hope current one is good for Fedora, if not
> > please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default
quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
*   * "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
*   * Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's
MLAA” in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

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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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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by
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particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either
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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

That's all there is to it!

1.121 javassist 3.4.ga
1.121.1 Available under license :

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.
This license, the Lesser General Public License, applies to some specially designated software packages—typically libraries—of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is 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 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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1.124 slf4j-jdk14 1.7.7

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* /opt/cola/permits/1136687460_1613859274.03/0/slf4j-jdk14-1-7-7-sources-1-
  jar/org/slf4j/impl/JDK14LoggerAdapter.java
* /opt/cola/permits/1136687460_1613859274.03/0/slf4j-jdk14-1-7-7-sources-1-
  jar/org/slf4j/impl/JDK14LoggerFactory.java
* /opt/cola/permits/1136687460_1613859274.03/0/slf4j-jdk14-1-7-7-sources-1-
  jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/1136687460_1613859274.03/0/slf4j-jdk14-1-7-7-sources-1-
  jar/org/slf4j/impl/StaticMDCBinder.java
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  jar/org/slf4j/impl/StaticLoggerBinder.java

1.125 jetty-io 8.1.15.v20140411

1.126 time 1.7 45.el7

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The primary ANTLR guy:

Terence Parr
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1.132 jdbc-jtds 1.2.8

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1.133 libsepol 2.1.9 3.el7

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1.152 jul-to-slf4j 1.6.6

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1.154  jetty-jmx 8.1.10.v20130312

1.155  crda 3.18

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1.156 libtirpc 0.2.4 0.15.el7

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1.158 libsoup 2.62.2 2.el7

1.159 xfsdump 3.1.7 1.el7

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README for release 9c of 14-Jan-2018
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IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

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.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

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

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

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

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

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "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 "rdjppcom" and "wrjppcom", 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.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.

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.iijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.iijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible

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
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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 Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Thank to Thomas G. Lane for the original design and development of 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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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.

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1.170 tomcat-el-api 8.0.43

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1.171 libpciaccess 0.13.4 3.el7_3

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1.172 jaxb-api 1.0.6

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1.173 jersey-server 1.19

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1.174 openssl 1.1.1e
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1.175 jaxb-api 2.2.3

1.176 jaxb-xjc 1.0.6

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1.177 hsql-database-engine 1.8.0.7

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1.182 xmlschema 2.1.0

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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java
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  jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java
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jar/org/springframework/transaction/InvalidTimeoutException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2.jar/org/springframework/dao/CannotSerializeTransactionException.java
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jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/support/ResourceHolderSynchronization.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/support/PersistenceExceptionTranslationPostProcessor.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/interceptor/TransactionAspectUtils.java
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jar/org/springframework/transaction/support/DefaultTransactionStatus.java
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  jar/org/springframework/jca/cci/CannotCreateRecordException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
  jar/org/springframework/jca/cci/object/SimpleRecordOperation.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
  jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
  jar/org/springframework/transaction/SavepointManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
  jar/org/springframework/jca/cci/connection/NotSupportedRecordFactory.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
  jar/org/springframework/jca/cci/CciOperationNotSupportedException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
  jar/org/springframework/jca/cci/object/EisOperation.java

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1.197 mina-filter-compression 1.1.7

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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/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/AbstractConnector.java
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* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/ShutdownMonitor.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/ssl/SslConnector.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/RequestLog.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/handler/HandlerCollection.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/handler/ConnectHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/handler/ScopedHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/handler/HandlerList.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/SessionIdManager.java
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* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/handler/ErrorHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/session/SessionHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/handler/HotSwapHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/session/AbstractSessionIdManager.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/handler/jmx/AbstractHandlerMBean.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/session/AbstractSessionManager.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/session/HashedSession.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/session/JDBCSessionManager.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/session/SSLSessionsManager.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/session/RequestLogHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/handler/MovedContextHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/session/InheritedChannelConnector.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/handler/AsyncHttpConnection.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/handler/RequestLogHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/handler/AsyncNCSAResponse.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/handler/AsyncNCSAResponseLog.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/handler/AsyncNCSAResponse.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources.jar/org/eclipse/jetty/server/handler/AsyncNCSAResponseLog.java

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* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/BlockingHttpConnection.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/nio/SelectChannelConnector.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/LocalConnector.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/ServletResponseHttpWrapper.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/handler/GzipHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/bio/SocketConnector.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/handler/AsyncContinuation.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/handler/ProxyHandler.java

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/**
 * Find out if the request supports CONFIDENTIAL security.
 * @param request the incoming HTTP request
 * @return the result of calling [Connector#isConfidential(Request)], or false
 * if there is no connector
 */
Found in path(s):
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/AbstractHttpConnection.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)
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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.
 */

Found in path(s):
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
  jar/org/eclipse/jetty/server/ssl/SslSelectChannelConnector.java
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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.

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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/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
* jar/org/eclipse/jetty/server/Connector.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.
 */

/**
 * 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.
 */
HEAR YE, HEAR YE!

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http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2's various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/
The specification of DOM Level 1’s various parts is at:

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

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

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

The actual DOM Java Language Binding classes for SVG 1.1 came from:
http://www.w3.org/TR/SVG11/java.html
xml-commons/java/external/README.sax.txt

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/**
* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
* Will not need to do anything if using PreparedStatement's standard methods,
* but might be necessary to free database resources if using proprietary means.
* <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
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* Otherwise, the database resources for the temporary BLOBs might stay allocated.
*/

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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
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/**
 *
* The classes in this package make JDBC easier to use and
* reduce the likelihood of common errors. In particular, they:
* <ul>
* <li>Simplify error handling, avoiding the need for try/catch/finally
* blocks in application code.
* <li>Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access
* exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* <li>Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
* </ul>
*
* <p>This package and related packages are discussed in Chapter 9 of
* <a href="http://www.amazon.com/exec/obidos/tg/detail/-/0764543857/">Expert One-On-One J2EE Design and
  Development</a>
* by Rod Johnson (Wrox, 2002).
*
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/**
 * {@link LobHandler} implementation for Oracle databases. Uses proprietary API
 * to create <code>oracle.sql.BLOB</code> and <code>oracle.sql.CLOB</code>
 * instances, as necessary when working with Oracle's JDBC driver.
 * Note that this LobHandler requires Oracle JDBC driver 9i or higher!
 *
 * While most databases are able to work with {@link DefaultLobHandler},
 * Oracle just accepts Blob/Clob instances created via its own proprietary
 * BLOB/CLOB API, and additionally doesn't accept large streams for
 * PreparedStatement's corresponding setter methods. Therefore, you need
 * to use a strategy like this LobHandler implementation.
 *
 * Needs to work on a native JDBC Connection, to be able to cast it to
 * <code>oracle.jdbc.OracleConnection</code>. If you pass in Connections from a
 * connection pool (the usual case in a J2EE environment), you need to set an
 * appropriate {@link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor}
 * to allow for automatic retrieval of the underlying native JDBC Connection.
 * LobHandler and NativeJdbcExtractor are separate concerns, therefore they
 * are represented by separate strategy interfaces.
 *
 * Coded via reflection to avoid dependencies on Oracle classes.
 * Even reads in Oracle constants via reflection because of different Oracle
 * drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
 * As this LobHandler initializes Oracle classes on instantiation, do not define
 * this as eager-initializing singleton if you do not want to depend on the Oracle
 * JAR being in the class path: use "lazy-init=true" to avoid this issue.
 *
 * @author Juergen Hoeller
 * @author Thomas Risberg
 * @since 04.12.2003
 * @see #setNativeJdbcExtractor
 * @see oracle.sql.BLOB
 * @see oracle.sql.CLOB
*/
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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
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  jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/SqlProvider.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/CallableStatementCreator.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/PreparedStatementCreator.java
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/**

* Abstraction for handling large binary fields and large text fields in
* specific databases, no matter if represented as simple types or Large OBjects.
* Its main purpose is to isolate Oracle's peculiar handling of LOBs in
  * [{@link OracleLobHandler}]; most other databases should be able to work
  * with the provided [{@link DefaultLobHandler}].
*<p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
  * LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
  * LobCreators are typically instantiated for each statement execution or for
  * each transaction; they are not thread-safe because they might track
  * allocated database resources in order to free them after execution.
*<p>Most databases/drivers should be able to work with [{@link DefaultLobHandler}],
  * which by default delegates to JDBC's direct accessor methods, avoiding the
  * <code>java.sql.Blob</code> and <code>java.sql.Clob</code> API completely.
  * [{@link DefaultLobHandler}] can also be configured to access LOBs using
  * <code>PreparedStatement.setBlob/setClob</code> (e.g. for PostgreSQL), through
  * setting the {[@link DefaultLobHandler#setWrapAsLob wrapAsLob]} property.
*<p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
  * proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
  * PreparedStatement's corresponding setter methods. Therefore, you need to use
  * [{@link OracleLobHandler}] there, which uses Oracle's BLOB/CLOB API for both types
  * of access. The Oracle 10g JDBC driver should basically work with
  * [{@link DefaultLobHandler}] as well, with some limitations in terms of LOB sizes.
*<p>Of course, you need to declare different field types for each database.
  * In Oracle, any binary content needs to go into a BLOB, and all character content
  * beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a
  * CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete
  * portability, use a LobHandler for fields that might typically require LOBs on
  * some database because of the field size (take Oracle's numbers as a guideline).
*<p><b>Summarizing the recommended options (for actual LOB fields):</b></p>
*<ul>
*<li><b>JDBC 4.0 driver:</b> [{@link DefaultLobHandler}] with <code>streamAsLob=true</code>.</li>
*<li><b>PostgreSQL:</b> [{@link DefaultLobHandler}] with <code>wrapAsLob=true</code>.</li>
*<li><b>Oracle 9i/10g:</b> [{@link OracleLobHandler}] with a connection-pool-specific
  * [{@link OracleLobHandler#setNativeJdbcExtractor NativeJdbcExtractor}].
*<li>For all other database drivers (and for non-LOB fields that might potentially
  * turn into LOBs on some databases): a plain [{@link DefaultLobHandler}].</li>
*<ul>
*<div>@author Juergen Hoeller</div>
*<div>@since 23.12.2003</div>
*<div>@see DefaultLobHandler</div>
*<div>@see OracleLobHandler</div>
*<div>@see java.sql.ResultSet#getBlob</div>
*<div>@see java.sql.ResultSet#getClob
* @see java.sql.ResultSet#getBytes
* @see java.sql.ResultSet#getBinaryStream
* @see java.sql.ResultSet#getString
* @see java.sql.ResultSet#getAsciiStream
* @see java.sql.ResultSet#getCharacterStream
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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/Jdbc4NativeJdbcExtractor.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/BeanPropertyRowMapper.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/SimpleColumnRowMapper.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/ColumnMapRowMapper.java
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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/IsolationLevelDataSourceAdapter.java

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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/datasource/xml/XmlCharacterStreamProvider.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/datasource/AbstractDataSource.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/datasource/AbstractDataResource.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/datasource/AbstractDataFieldMaxValueIncrementer.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/datasource/AbstractDataObjectResultSetExtractor.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/datasource/AbstractSqlParameterSource.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/datasource/AbstractSqlTypeValue.java
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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/datasource/lookup/MapDataSourceLookup.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/core/ParameterValueSetter.java
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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/support/KeyHolder.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/support/AbstractFallbackSQLExceptionTranslator.java
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/**
* Strategy interface for translating between
* SQLException exceptions
* and Spring's data access strategy-agnostic
* hierarchy.
* Implementations can be generic (for example, using
* SQLState codes for JDBC) or wholly proprietary (for example, using
* Oracle error codes) for greater precision.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/metadata/simple/SimpleJdbcDaoSupport.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/object/SqlOperation.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/datasource/AbstractInterruptibleBatchPreparedStatementSetter.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/RowCallbackHandler.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/RowMapper.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/metadata/SqlParameterMetaData.java
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* /opt/cola/permissions/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/core/simple/SimpleJdbcInsertOperations.java
* /opt/cola/permissions/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/support/nativejdbc/SimpleNativeJdbcExtractor.java

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http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

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

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

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

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

The actual DOM Java Language Binding classes for SVG 1.1 came from:
http://www.w3.org/TR/SVG11/java.html

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1.211 servlet-api 3.0.20100224

1.212 openssl 1.0.1e-42.el7.9

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1.214 jetty-start 8.1.10.v20130312

1.215 cryptsetup 1.6.7 1.el7

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1.217 guice-multibindings 2.0

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1.219 jsr311-api 1.1.1
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1.221 mongoose 3.1

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1.222 jackson-databind 2.10.1

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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)

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* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1-
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/**
 * @return The result of calling @link #getConnector].[@link Connector#isConfidential(Request)
 * isConfidential](request), or false
 * @ if there is no connector.
 */

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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.
 */

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* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1-
  jar/org/eclipse/jetty/server/AbstractConnector.java
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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.http.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.http.security.Constraint#getDataConstraint()}
 */
/**
 * @param request A request
 * @return true if the request is confidential. This normally means the https schema has been used.
 */

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* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1.jar/org/eclipse/jetty/http/ssl/AliasedX509ExtendedKeyManager.java
* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1.jar/org/eclipse/jetty/http/ssl/AliasedX509KeyManager.java
* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1.jar/org/eclipse/jetty/http/ssl/SslContextFactory.java
* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1.jar/org/eclipse/jetty/util/security/CertificateUtils.java
* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1.jar/org/eclipse/jetty/server/session/jmx/AbstractSessionManagerMBean.java
* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1.jar/org/eclipse/jetty/server/handler/jmx/AbstractHandlerMBean.java
* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1.jar/org/eclipse/jetty/util/security/CertificateValidator.java
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* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1.jar/org/eclipse/jetty/io/AbstractBuffer.java
* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1.jar/org/eclipse/jetty/util/DateCache.java
* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1.jar/org/eclipse/jetty/server/Response.java
* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1.jar/org/eclipse/jetty/io/BufferCache.java
* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1.jar/org/eclipse/jetty/server/NCSARequestLog.java
* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1-
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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.
 */

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/*
* @(#)UnixCrypt.java 0.9 96/11/25
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/**
 * Utf8 Appendable abstract base class
 *
 * This abstract class wraps a standard {@link java.lang.Appendable} and provides methods to append UTF-8
 * encoded bytes, that are converted into characters.
 *
 * This class is stateful and up to 4 calls to {@link #append(byte)} may be needed before state a character is
 * appended to the string buffer.
 *
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was
 * inspired by
 * http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
 *
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 **/

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* /opt/cola/permits/1128912117_1612119293.01/0/jetty-server-7-5-4-v20111024-sources-1-
  jar/org/eclipse/jetty/util/Utf8Appendable.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.**

/**

* 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.

*/

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 redirecions.
confidentialScheme: Scheme to use for confidential redirecions.
integralPort: Port to use for integral redirecions.
integralScheme: Scheme to use for integral redirecions.
lowResourcesMaxIdleTime: The period in ms that a connection may be idle when the connector has low resources, before it is closed.

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1.224 spring-expression 3.0.7.RELEASE
1.224.1 Available under license:
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// brackets must be in pairs
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// Chew on the expression text - relying on the rules
* case "\"
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* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/common/ExpressionUtils.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/.expression/EvaluationContext.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expresssion/spel/ast/Projection.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expresssion/spel/ast/FunctionReference.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expresssion/spel/ast/PropertyOrFieldReference.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expresssion/common/TemplateParserContext.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expresssion/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expresssion/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expresssion/spel/MethodResolver.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expresssion/spel/ExpressionInvocationTargetException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expresssion/spel/ast/BeanReference.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expresssion/spel/ast/ConstructorReference.java
jar/org/springframework/expression/spel/ast/IntLiteral.java
* /opt/cola/permits/1136652293_1613848641.2/o/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /opt/cola/permits/1136652293_1613848641.2/o/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java
* /opt/cola/permits/1136652293_1613848641.2/o/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/StandardTypeConverter.java
* /opt/cola/permits/1136652293_1613848641.2/o/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/TypedValue.java
* /opt/cola/permits/1136652293_1613848641.2/o/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /opt/cola/permits/1136652293_1613848641.2/o/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /opt/cola/permits/1136652293_1613848641.2/o/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /opt/cola/permits/1136652293_1613848641.2/o/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/BeanResolver.java
* /opt/cola/permits/1136652293_1613848641.2/o/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/InlineList.java
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" +

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* " + prefixIndex + "
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Found in path(s):

* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/ParserContext.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/SpelParseException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/SpelEvaluationException.java

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case '[': case '(': case '{':

Found in path(s):

* case '{'

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* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/Operator.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/SpelParserConfiguration.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/EvaluationException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/OperatorMatches.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/NullLiteral.java
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"foo${expr0}bar${expr1}". The static

Found in path(s):
* * number of expressions all contained in "${...}" markers. For instance

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case '];case ')

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* case ')
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square brackets [] round brackets () and curly brackets {

Found in path(s):
* * Bracket is used to describe

1.225 libxt 1.1.5 3.el7
1.226 j2objc-annotations 1.3

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 */

package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }
    public final String getName() { return null; }
    public void checkGuard(Object obj) throws SecurityException { }
    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }
    public abstract String getActions();
    public abstract boolean implies(Permission permission);
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*******************************************************************************

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

created on: 2005 Jan 16
created by: Markus W. Scherer

* Low-level Unicode bidi/shaping properties access.
* Java port of ubidi_props.h/c.

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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit
An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

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

For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

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

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

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@author Alan Liu
@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement [ @link Replaceable ] in their text representation class.
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```java
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 * @param apiKey
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 * @param methods
 *            the API methods to allow the other application to call. If the set is empty or null, permission is granted for
 *            all API methods.
 * @return true if the operation succeeds false otherwise
 */
/**
 * Check to see what permissions have been granted to current app by the specified external application.
 * For example:
 * Application A grants permission on users.getInfo to Application B, Application B can then call
 * permissions_checkAvailableApiAccess(A) and will receive
 * "users.getInfo" as a result.
 * @param apiKey
 *            the API key of the application to check for permissions from.
 * @return a list of all API methods that the specified application has permission to use.
 */
```

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1.235 iperf 2.0.4

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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   projectHome='http://www.testng.org'
   description='Used for unit testing'>
<jar name='testng-6.8.jar' />
</module>

<module name='xalan'
   licenseType='apache-2.0'
   version='2.4.D1'
   projectHome='http://xml.apache.org/xalan-j/
   description='Xalan-Java is an XSLT processor for transforming XML documents.
   Used to generate HTML test reports from XML (testing time)'>
<jar name='xalan.jar' />
</module>
</thirdparty-licenses>

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The actual DOM Java Language Binding classes in xml-commons came from:
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The specification of DOM Level 3's various parts is at:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2's various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
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http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
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The specification of DOM Level 1's various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
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The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $
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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 "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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

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
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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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That's all there is to it!

1.249 base-passwd 3.5.3
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Maintainer: Colin Watson <cjwatson@debian.org>

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That's all there is to it!
HAPROXY's license - 2006/06/15

Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition.

The solution was then to apply the LGPL license to the exportable include files, while keeping the GPL for all the rest. This way, it still is mandatory to redistribute modified code under customer request, but at the same time, it is expressly permitted to write, compile, link and load non-GPL code using the LGPL header files and not to distribute them if it causes a legal problem.

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The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
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  /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-\jar/org/springframework/context/annotation/DependsOn.java
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  /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-\jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
  /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-\jar/org/springframework/remoting/rmi/JndiRmiProxyFactoryBean.java
  /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-\jar/org/springframework/context/event/GenericApplicationListenerAdapter.java
  /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-\jar/org/springframework/context/event/ReadablePartialPrinter.java
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  /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-\jar/org/springframework/context/annotation/ScopedProxyCreator.java
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  /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-\jar/org/springframework/expressions/BeanFactoryExpressionParserImpl.java
  /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-\jar/org/springframework/jmx/export/metadata/JmxTargetSource.java

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/**
* {@link FactoryBean} that obtains a WebSphere '{@link javax.management.MBeanServer}
* reference through WebSphere's proprietary '{@code>AdminServiceFactory</'code> API,
* available on WebSphere 5.1 and higher.
*<p>Exposes the '{@code>MBeanServer</'code> for bean references.
* This FactoryBean is a direct alternative to '{@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
*<p>@author Juergen Hoeller
*<p>@author Rob Harrop
*<p>@since 2.0.3
*<p>@see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
*<p>@see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
*<p>@see java.management.MBeanServer
*<p>@see MBeanServerFactoryBean
*/

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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/scheduling/TaskScheduler.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/validation/DefaultBindingErrorProcessor.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/format/datetime/joda/JodaDateTimeFormatAnnotationFormatterFactory.java
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-
  jar/org/springframework/validation/AbstractPropertyBindingResult.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-
  jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-
  jar/org/springframework/context/format/number/CurrencyFormatter.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-
  jar/org/springframework/expressions/BeanFactoryResolver.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-
  jar/org/springframework/context/ApplicationContextInitializer.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-
  jar/org/springframework/cache/concurrent/ConcurrentMapCacheFactoryBean.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-
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  jar/org/springframework/context/MessageSourceAware.java
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  jar/org/springframework/cache/annotation/CacheAnnotationParser.java
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-jar/org/springframework/context/AppContext.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-jar/org/springframework/validation/MessageCodesResolver.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-jar/org/springframework/jmx/export/annotation/ManagedOperationParameters.java
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-jar/org/springframework/i18n/LocaleContext.java
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jar/org/springframework/remoting/jaxws/JaxWsSoapFaultException.java
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* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1-jar/org/springframework/web/HttpMediaTypeNotSupportedException.java
* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1-jar/org/springframework/remoting/caucho/BurlapClientInterceptor.java
* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1-jar/org/springframework/web/context/request/RequestContextListener.java

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* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1.jar/org/springframework/http/client/ClientHttpResponse.java
* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1.jar/org/springframework/http/client/HttpComponentsClientHttpResponse.java
* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1.jar/org/springframework/web/context/support/GenericWebApplicationContext.java
* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1.jar/org/springframework/web/multipart/support/StandardMultipartHttpServletRequest.java
* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1.jar/org/springframework/web/bind/annotation/RequestMapping.java
* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1.jar/org/springframework/web/method/annotation/ModelAttributeMethodProcessor.java
* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1.jar/org/springframework/web/method/annotation/SessionStatusMethodArgumentResolver.java
* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1.jar/org/springframework/web/context/utility/UriComponentsBuilder.java
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* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1.jar/org/springframework/web/context/support/DefaultResponseErrorHandler.java
* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1.jar/org/springframework/web/context/support/AbstractRefreshableWebApplicationContext.java
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jar/org/springframework/http/client/SimpleClientHttpResponse.java
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jar/org/springframework/http/converter/json/MappingJackson2HttpMessageConverter.java
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jar/org/springframework/http/MediaType.java
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jar/org/springframework/web/context/ServletContextAware.java
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jar/org/springframework/web/context/support/ServletContextResource.java
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jar/org/springframework/web/util/UriComponents.java

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jar/org/springframework/web/filter/CommonsRequestLoggingFilter.java
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  */opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1-
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  */opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1-
  jar/org/springframework/web/method/HandlerMethodReturnValueHandler.java
  */opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1-
  jar/org/springframework/web/context/support/InterceptingHttpAccessor.java
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  jar/org/springframework/web/method/annotation/ExceptionHandlerMethodResolver.java
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  jar/org/springframework/web/multipart(MaxUploadSizeExceededException.java
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* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1-jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java
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* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1-jar/org/springframework/web/context/request/ContextExposingHttpServletRequest.java
* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1-jar/org/springframework/web/context/support/ServletRequestUtils.java
* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1-jar/org/springframework/web/context/support/ServletRequestHandledEvent.java
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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.
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1.265 jose4j 0.6.3

1.266 esapi 2.1.0

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  jar/org/owasp/esapi/tags/BaseEncodeTag.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-
  jar/org/owasp/esapi/tags/EncodeForHTMLAttributeTag.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-
  jar/org/owasp/esapi/tags/EncodeForVBScriptTag.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-
  jar/org/owasp/esapi/tags/EncodeForHTMLTag.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:<b>/</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

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ANY "key derivation key" AT ALL!!!

NOTE: This method is generally not intended to be called separately.
It is used by ESAPI's reference crypto implementation class [@code JavaEncryptor]
and might be useful for someone implementing their own replacement class, but
generally it is not something that is useful to application client code.

@<param> keyDerivationKey  A key used as an input to a key derivation function
to derive other keys. This is the key that generally
is created using some key generation mechanism such as
{ @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.
@<param> keySize The cipher's key size (in bits) for the [@code keyDerivationKey].
Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
Note: The derived key will have the same size as this.
@<param> purpose The purpose for the derived key. Must be either the
string "encryption" or "authenticity". Use "encryption" for
creating a derived key to use for confidentiality, and "authenticity"
for a derived key to use with a MAC to ensure message authenticity.
The derived key will have the same purpose
as 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> 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.
@<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()
Found in path(s):
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-
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  jar/org/owasp/esapi/filters/SecurityWrapperRequest.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-
  jar/org/owasp/esapi/filters/SecurityWrapperResponse.java
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 * @author kevin.w.wall@gmail.com
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 */

// 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

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 */

/**
 * 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
 */

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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
* /
/**
* Return a {@code List} of strings of combined cipher modes that support
* <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.
* */

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* */
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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.
 *
 * <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!!!
 *
 * <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 CryptoHelper#generateSecretKey(String, int)}. The
 * "input" key from which the other keys are derived.
 *
 * The derived key will have the same algorithm type
 * as this key. This KDK cannot be null.
 * @param keySize The cipher's key size (in bits) for the {@code keyDerivationKey}.
 * Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
 * <b>Note:</b> The derived key will have the same size as this.
 * @param purpose The purpose for the derived key. For the ESAPI reference implementation,
 * 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.

*/

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Found in path(s):
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/Validator.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/reference/DefaultHTTPUtilities.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/reference/Log4JLogFactory.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/codecs/OracleCodec.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/reference/Log4JLogger.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/reference/Log4JLoggerFactory.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/HTTPUtilities.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/reference/FileBasedAuthenticator.java

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

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@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.

Encodes and decodes to and from Base64 notation.
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.

The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:

```java
String encoded = Base64.encodeBytes(mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES);
```

to compress the data before encoding it and then making the output have no newline characters.

Change Log:

- v2.2.2 - Fixed `encodeToFile` and `decodeToFile` 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:

```java
String encoded = Base64.encodeBytes(mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES);
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```java
String encoded = Base64.encodeBytes(mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES);
```
* encoded data was a single byte.</li>
* <li>v2.0 - I got rid of methods that used booleans to set options.
* Now everything is more consolidated and cleaner. The code now detects
* when data that's being decoded is gzip-compressed and will decompress it
* automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (<tt>int</tt>s that you "OR" together).</li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>.
* 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).</li>
* <li>v1.5 - Output stream passes on flush() command but doesn't do anything itself.
* This helps when using GZIP streams.
* Added the ability to GZip-compress objects before encoding them.</li>
* <li>v1.4 - Added helper methods to read/write files.</li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* <li>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.</li>
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>

* I am placing this code in the Public Domain. Do with it as you will.
* This software comes with no guarantees or warranties but with
* plenty of well-wishing instead!
* Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a>
* periodically to check for updates or to contribute improvements.
* </p>

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

Found in path(s):
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/codecs/Base64.java

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@author Patrick Higgins
@created 2010
*/

Found in path(s):
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/ExecuteResult.java
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 *
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 */

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

Found in path(s):
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/crypto/CryptoToken.java
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/**
 * This method adds a provider to the { @code SecurityManager}
 * either by some generic name or by the class name.
 *
 * The following generic JCE provider names are built-in:
 *
 * @li SunJCE
 * @li IBMJCE [for WebSphere]
 * @li GnuCrypto [for use with GNU Compiler for Java, i.e., gcj]
 * @li BC [i.e., Bouncy Castle]
 * @li IAIK
 * @li CryptixCrypto (or Cryptix)
 * @li ABA
 *
 * 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.)

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"]).

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).

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.

* @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.
*/

Found in path(s):
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-
  jar/org/owasp/esapi/crypto/SecurityProviderLoader.java
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 *
 * @author Pawan Singh (pawan.singh@owasp.org) <a href="www.owasp.org">OWASP</a>
 * @created 2009
 */

Found in path(s):
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-
  jar/org/owasp/esapi/util/DefaultMessageUtil.java
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 *
 * @author Arshan Dabirsiaghi <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2008
 */

Found in path(s):
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/SafeFile.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/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/Randomizer.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/errors/EnterpriseSecurityException.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/reference/validation/IntegerValidationRule.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/Logger.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/reference/DefaultUser.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/reference/DefaultEncoder.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/Encoder.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/codecs/WindowsCodec.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/codecs/UnixCodec.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/errors/ValidationUploadException.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/errors/EncodingException.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/reference/validation/HTMLValidationRule.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/reference/validation/StringValidationRule.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/errors/AvailabilityException.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/errors/ValidationAvailabilityException.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/Authenticator.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/errors/ValidationUploadException.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/errors/EncodingException.java
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/ReferenceValidationRule.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/permissions/1135953481_1613641250.92/0/esapi-2-1-0-sources-2.jar/org/owasp/esapi/codecs/Codec.java
* /opt/cola/permissions/1135953481_1613641250.92/0/esapi-2-1-0-sources-2.jar/org/owasp/esapi/errors/AuthenticationHostException.java
* /opt/cola/permissions/1135953481_1613641250.92/0/esapi-2-1-0-sources-2.jar/org/owasp/esapi/AccessController.java
* /opt/cola/permissions/1135953481_1613641250.92/0/esapi-2-1-0-sources-2.jar/org/owasp/esapi/errors/AuthenticationLoginException.java
* /opt/cola/permissions/1135953481_1613641250.92/0/esapi-2-1-0-sources-2.jar/org/owasp/esapi/reference/crypto/DefaultEncryptedProperties.java
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 *
 * @author Chris Schmidt (chris.schmidt@owasp.org)
 * @created 2010
 */

Found in path(s):
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
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Found in path(s):
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-
  jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java
  /org/owasp/esapi/errors/EncryptionRuntimeException.java
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@created 2009

Found in path(s):
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/rules/BeanShellRule.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/actions/BlockAction.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/actions/RedirectAction.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/rules/EnforceHTTPSRule.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/rules/IPRule.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/rules/AddHeaderRule.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/rules/GeneralAttackSignatureRule.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/rules/PathExtensionRule.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/internal/InterceptingHttpServletRequest.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/internal/InterceptingServletOutputStream.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/internal/Parameter.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/rules/ReplaceContentRule.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/rules/DetectOutboundContentRule.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/rules/AuthenticatedRule.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/waf/ConfigurationException.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/actions/DoNothingAction.java
/opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/waf/ESAPIWebApplicationFirewallFilter.java
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// version.

Found in path(s):
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 *
 * @created 2007
 */

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* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/ValidationErrorList.java
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/\*
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 *
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 *
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 * @author Rogan Dawes <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2008
 */

Found in path(s):
* /opt/cola/permits/1135953481_1613641250.92/0/esapi-2-1-0-sources-2-jar/org/owasp/esapi/ESAPI.java

---

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3. [3] Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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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
51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
52. [56]Kenneth Stone <ken@sdd.hp.com> HP-UX port
53. [57]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
56. [60]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

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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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1.277 alsa 1.1.6-2.el7

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1.287 findbugs-jsr305 1.3.9

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1.288 mockito-all 1.10.19

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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
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1.305 aws-java-sdk-s3 1.11.61

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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/metrics/MetricsTagPredicate.java
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  jar/com/amazonaws/services/s3/model/inventory/InventoryIncludedObjectVersions.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/lifecycle/LifecycleTagPredicate.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/SetBucketAclRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/TransferManagerParams.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GlacierJobParameters.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/internal/RestUtils.java
  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
    jar/com/amazonaws/services/s3/model/BucketPolicy.java
  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
    jar/com/amazonaws/services/s3/model/Mimetypes.java
  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
    jar/com/amazonaws/services/s3/model/Owner.java
  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
    jar/com/amazonaws/services/s3/internal/RepeatableFileInputStream.java
  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
    jar/com/amazonaws/services/s3/model/TagSet.java
  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
    jar/com/amazonaws/services/s3/model/transform/XmlResponsesSaxParser.java
  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
    jar/com/amazonaws/services/s3/model/Bucket.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/model/CanonicalGrantee.java
  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
    jar/com/amazonaws/services/s3/model/EmailAddressGrantee.java
  * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
    jar/com/amazonaws/services/s3/model/AccessControlList.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/S3StringResponseHandler.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/BucketLoggingConfiguration.java
 * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/internal/RepeatableInputStream.java
 * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/model/Grant.java

* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/internal/AmazonS3ExceptionBuilder.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/EncryptionMaterialsFactory.java
 * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/internal/MultiFileOutputStream.java
 * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/model/PutObjectRequest.java
 * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/auth/DecodedStreamBuffer.java
 * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/model/EncryptedPutObjectRequest.java
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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/TopicConfiguration.java
 * /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/model/MaterialsDescriptionProvider.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/S3DirectSpi.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/internal/S3Direct.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/internal/FileDeletionEvent.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/model/ExtraMaterialsDescription.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/model/UploadPartResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/transfer/internal/UploadImpl.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/model/transform/RequestXmlFactory.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/model/ListMultipartUploadsRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/model/AbortMultipartUploadRequest.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/model/GeneratePresignedUrlRequest.java
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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/S3RequestEndpointResolver.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/ListNextBatchOfObjectsRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GetBucketLifecycleConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/ListNextBatchOfVersionsRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GetBucketVersioningConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GetBucketLoggingConfigurationRequest.java

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   */
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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/GroupGrantee.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/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/Compliance.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/SetBucketVersioningConfigurationRequest.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/DeleteVersionRequest.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/S3ObjectSummary.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/Compliance.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/Compliance.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/MultiFactorAuthentication.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/MultiFactorAuthentication.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/Compliance.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/MultiFactorAuthentication.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/transform/BucketNotificationConfigurationStaxUnmarshaller.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/FilterRule.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/FilterRule.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/SSEAlgorithm.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GetBucketReplicationConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/BucketReplicationConfiguration.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GetS3AccountOwnerRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/transform/NotificationConfigurationStaxUnmarshaller.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/SetObjectAclRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/SetBucketAccelerateConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/HeadBucketResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/DeleteBucketReplicationConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GetBucketNotificationConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/transform/NotificationConfigurationStaxUnmarshaller.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/transform/FilterStaxUnmarshaller.java
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/*

Synchronous client for accessing Amazon S3.

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

<p>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 &lt;code&gt;"AES/CBC/PKCS5Padding"&lt;/code&gt;, please refer to Oracle's &lt;a
href="http://docs.oracle.com/javase/7/docs/technotes/guides/security/StandardNames.html"
&gt;Java&trade; Cryptography Architecture Standard Algorithm Name Documentation</a>&gt;
for more details.

S3 metadata vs instruction file</p>
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 (i.e. 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 SDKs)</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>&lt;b&gt;x-amz-key&lt;/b&gt;</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>&lt;b&gt;x-amz-iv&lt;/b&gt;</td>
<td>Randomly generated IV (per S3 object), base64 encoded</td>
</tr>
<tr>
<td>&lt;b&gt;x-amz-matdesc&lt;/b&gt;</td>
<td>Customer provided material description in JSON (UTF8) format. Used to identify the client-side master key (i.e. used to encrypt/wrap the generated content encrypting key).</td>
</tr>
<tr>
<td>&lt;b&gt;x-amz-unencrypted-content-length&lt;/b&gt;</td>
<td>Unencrypted content length (optional but should be specified whenever possible).</td>
</tr>
</tbody>
</table>
S3 v2 crypto meta information (currently supported by the Java SDK)

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

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>x-amz-key-v2</td>
<td>CEK in key wrapped form. This is necessary so that the S3 encryption client that doesn't recognize the v2 format will not mistakenly decrypt S3 object encrypted in v2 format.</td>
</tr>
<tr>
<td>x-amz-iv</td>
<td>Randomly generated IV (per S3 object), base64 encoded. (Same as v1.)</td>
</tr>
<tr>
<td>x-amz-matdesc</td>
<td>Customer provided material description in JSON format. (Same as v1). Used to identify the client-side master key.</td>
</tr>
<tr>
<td>x-amz-unencrypted-content-length</td>
<td>Unencrypted content length. (optional but should be specified whenever possible. Same as v1.)</td>
</tr>
<tr>
<td>x-amz-wrap-alg</td>
<td>Key wrapping algorithm used. Supported values: &quot;AESWrap&quot;, &quot;RSA/ECB/OAEPWithSHA-256AndMGF1Padding&quot;, &quot;kms&quot;</td>
</tr>
</tbody>
</table>

For KMS client side encryption, the KMS Customer Master Key ID is stored as part of the material description, x-amz-matdesc, under the key-name kms_cmk_id.
Content encryption algorithm used.

- Supported values:
  - "AES/GCM/NoPadding", "AES/CBC/PKCS5Padding"
  - Default to "AES/CBC/PKCS5Padding" if this key is absent.

Tag length (in bits) when AEAD is in use.

- 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, `<b>x-amz-wrap-alg</b>` is always set to `<b>"kms"</b>.

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

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

```
x-amz-meta-x-amz-key-v2: CiAJ2GqwpJRnt4izujwoalC2YdNRNSMEsIg5rw3pEI+J8hKnAQEBAwB4CdhsqKSUZ7elS7o8KGrQtmHTUTUjBLJRua8N6RCPIfAAAbb+MHwGCSqGSih3DQEHBqBvMG0CAQAwaAYJKoZIhvCNAQwBBMB4GCWCGSAFlAwQBtAYd0rzN3KHViWixDVcCARCAOwhZ6xA8ro63Z0mNk3uJFicHKVylIC/PkchALvG1oVLnf86mCZJnpXtwMKKkJDocVj3Z1zGjZTuFfOH
x-amz-iv: xqOHa+M6y0UogwG5SHJ3M3Q==
x-amz-unencrypted-content-length: 32768
```
CryptoMode: Authenticated Encryption

```
x-amz-key-v2: CiAJ2GqwpJRnt4izujwoalC2YdNRNSMEslG5rw3pEI+J8hKnAQEBAwB4CdhsQSUZ7eIs7o8KGpQtmHTUTUjBLJRuaN65CPifIAAAAB+MHwCGScqG5lb3DQEHbqBvMG0CAQAwaAYJKoZIhvDeNAQcBMB4GCWCGSAF1AwQBLjARBAytFVvW4l6QmwePK1ECARCAO1VzoM6Kx9A9IDyNMm/BEbbjle2vLA7IYf9OkUosqdxgKx
NID9QaL/7928m1Djtldo0bJpHefm89C
x-amz-iv: VZBksiyij6DhrUMye
```

S3 metadata of an instruction file

The following key is always included as part of the S3 metadata of the
instruction file (which is just an S3 object). Since the SDK treats this key
as "user metadata", the key name is always prefixed with <b>x-amz-meta-</b>
when physically stored.

```
<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>
```
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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/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
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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/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/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/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/transfer/internal/TransferStateChangeListener.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/transfer/MultipleFileDownloadMonitor.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/transfer/transfer/MultipleFileUploadMonitor.java

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when it starts in an interactive mode:

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

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

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

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

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

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

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

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

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

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

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

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

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

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.

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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convey the exclusion of warranty; and each file should have at least the
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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
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strategy to use in any particular case, based on the explanations below.

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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
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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.

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and what the program that uses the Library does.

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
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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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.

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1.313 nettle 2.7.1 8.el7
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Martin Richards
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1.338 angular-ui-grid 3.0.7

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/**
* XSLT-driven View that allows for response context to be rendered as the
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*
* <p>The XSLT Source object is supplied as a parameter in the model and then
* [link locateSource detected] during response rendering. Users can either specify
* a specific entry in the model via the [link setSourceKey sourceKey] property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See [link getSourceTypes() here]
* for more details.
*
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure [link setOutputProperties output properties]
* to be passed to the Transformer.
*
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/

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/ opt/ cola/ permits/ 1136046130_1613664961. 72/ 0/ spring- webmvc-3-1-4- release-sources- 1-
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  *
  * <p>Implementations may use this contract for example as part of a solution
  * to provide data integrity, confidentiality, protection against cross-site
  * request forgery (CSRF), and others or for other tasks such as automatically
  * adding a hidden field to all forms and URLs.
  *
  * <p>View technologies that support this contract can obtain an instance to
  * delegate to via {@link RequestContext#getRequestDataValueProcessor()}.  
  *
  * @author Rossen Stoyanchev
  * @since 3.1
  */
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* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-jar/org/springframework/web/servlet/view/velocity/VelocityConfig.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-jar/org/springframework/web/servlet/theme/CookieThemeResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-jar/org/springframework/web/servlet/ModelAndViewDefiningException.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-jar/org/springframework/web/servlet/ThemeResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-jar/org/springframework/web/servlet/tags/HtmlEscapeTag.java
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* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1.jar/org/springframework/web/servlet/handler/BeanNameUrlHandlerMapping.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1.jar/org/springframework/web/servlet/handler/ConversionServiceExposingInterceptor.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1.jar/org/springframework/web/servlet/ModelAndView.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1.jar/org/springframework/web/servlet/view/jasperreports/JasperReportsViewResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1.jar/org/springframework/web/servlet/tags/form/AbstractMultiCheckedElementTag.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1.jar/org/springframework/web/servlet/tags/form/AbstractSingleCheckedElementTag.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1.jar/org/springframework/web/servlet/config/ResourcesBeanDefinitionParser.java
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jar/org/springframework/web/servlet/HandlerExceptionResolver.java
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* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractDataBoundFormElementTag.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-jar/org/springframework/web/servlet/tags/EvalTag.java

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* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/view/velocity/VelocityLayoutViewResolver.java
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  jar/org/springframework/web/servlet/handler/HandlerInterceptorAdapter.java
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  jar/org/springframework/web/servlet/HandlerInterceptor.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/i18n/SessionLocaleResolver.java
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  jar/org/springframework/web/servlet/LocaleResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/i18n/AcceptHeaderLocaleResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/view/BeanNameViewResolver.java

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  jar/org/springframework/web/servlet/mvc/method/annotation/HttpEntityMethodProcessor.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
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1.349 stax-api 1.0 2

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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>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

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
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-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
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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* /opt/cola/permits/1137195122_1614028697.63/0/tomcat-coyote-8-0-43-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantDouble.java
* /opt/cola/permits/1137195122_1614028697.63/0/tomcat-coyote-8-0-43-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ClassParser.java
* /opt/cola/permits/1137195122_1614028697.63/0/tomcat-coyote-8-0-43-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantFloat.java
* /opt/cola/permits/1137195122_1614028697.63/0/tomcat-coyote-8-0-43-sources-1-jar/org/apache/tomcat/util/bcel/classfile/EnumElementValue.java
* /opt/cola/permits/1137195122_1614028697.63/0/tomcat-coyote-8-0-43-sources-1-
1.369 nss-pem 1.0.3 5.el7
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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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Also add information on how to contact you by electronic and paper mail.

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

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

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

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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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

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

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#!/usr/bin/env python

# Copyright (C) 2011-2013 Free Software Foundation, Inc.
This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
% filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.

```python
import datetime
import os
import os.path
import subprocess

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

    Assumes that the current working directory when called is the root of the GDB source tree (NOT the gdb/ subdirectory!). The names of the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        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('n'):
        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())
o.s.chdir(root_dir)
update_list = get_update_list()
update_files(update_list)

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

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

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

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (  
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
    "fdl.texi", "gpl.texi", "aclocal.m4",  
)

# The list of files to update by hand.
BY_HAND = (  
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",  
    "gdb/testsuite/gdb.base/step-line.c",  
)
# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.

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

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.

NOT_FSF_LIST = (  
    "gdb/exc_request.defs",  
    "gdb/gdbtk",  
    "gdb/testsuite/gdb-gdbtk/",  
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",  
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",  
    "sim/arm/armos.h", "sim/arm/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",  
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",  
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",  
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",  
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",  
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",  
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",  
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeeprom.c", "sim/ppc/bits.h",  
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",  
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",  
    "sim/ppc/corefile-n.h", "sim/ppc/ld-config.h", "sim/ppc/ld-decode.h",  
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",  
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",  
    "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",  
    "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",  
)
"sim/ppc/hw_init.c" "sim/ppc/hw_register.c" "sim/ppc/hw_init.c"
"sim/ppc/hw_memory.c" "sim/ppc/hw_trace.c" "sim/ppc/emul_unix.c"
"sim/ppc/emul_bugapi.c" "sim/ppc/lf.c" "sim/ppc/lf.c"
"sim/ppc/get-icache.c" "sim/ppc/get-itable.c" "sim/ppc/get-itable.c"
"sim/ppc/events.c" "sim/ppc/os_emul.c" "sim/ppc/emul_generic.c"
"sim/ppc/main.c" "sim/ppc/hw_com.c" "sim/ppc/gem-semantics.c"
"sim/ppc/emul_bugapi.c" "sim/ppc/device.c" "sim/ppc/emul_generic.h"
"sim/ppc/tree.c" "sim/ppc/mon.h" "sim/ppc/interrupts.h"
"sim/ppc/cap.c" "sim/ppc/cpu.c" "sim/ppc/hw_phb.h"
"sim/ppc/device_table.c" "sim/ppc/if.c" "sim/ppc/if.c"
"sim/ppc/dc-stupid" "sim/ppc/hw_pal.c" "sim/ppc/ppc-spr-table"
"sim/ppc/emul_unix.h" "sim/ppc/words.h" "sim/ppc/basics.h"
"sim/ppc/hw_htab.c" "sim/ppc/if.h" "sim/ppc/ld-decode.c"
"sim/ppc/sim-endian.c" "sim/ppc/hw_int.c" "sim/ppc/hw_int.c"
"sim/ppc/interrupts.c" "sim/ppc/hw_glue.c" "sim/ppc/emul_unix.c"
"sim/ppc/sim_calls.c" "sim/ppc/dc-complex" "sim/ppc/ld-cache.c"
"sim/ppc/registers.h" "sim/ppc/dc-test.02" "sim/ppc/options.c"
"sim/ppc/igen.h" "sim/ppc/registers.c" "sim/ppc/device.h"
"sim/ppc/emul_chirp.h" "sim/ppc/hw_register.c" "sim/ppc/hw_init.c"
"sim/ppc/hw_endian-n.h" "sim/ppc/filter_filename.c"
"sim/ppc/idecode_fields.h" "sim/ppc/hw_memory.c" "sim/ppc/hw_trace.c"
"sim/ppc/emul_netbsd.h" "sim/ppc/psim.c" "sim/ppc/ppc-instructions"
"sim/ppc/README" "sim/ppc/gen-icache.h" "sim/ppc/gen-model.h"
"sim/ppc/hw_cpu.c" "sim/ppc/hw_opic.c" "sim/ppc/hwicom.c"
"sim/ppc/device.h" "sim/ppc/device_table.c" "sim/ppc/hw_iobus.c"
"sim/ppc/device_table.c" "sim/ppc/hw_iobus.c" "sim/ppc/pg-idecode.c"
"sim/ppc/pg-idecode.c" "sim/ppc/pg-idecode.c" "sim/ppc/pg-idecode.c"
"sim/ppc/pg-idecode.c" "sim/ppc/pg-idecode.c" "sim/ppc/pg-idecode.c"

if __name__ == "__main__":
    main()

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Version 3, 29 June 2007

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@end enumerate

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

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

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

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

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

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

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

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

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

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

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

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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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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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@appendixsubsec Preamble

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Ty Coon, President of Vice

That's all there is to it!

BEGIN{

FS="\""
print "/* ===> Do not modify this file!! " \
"*- buffer-read-only: t -*. vi" \
":set ro:";
print " It is created automatically by copying.awk.";
print " Modify copying.awk instead. <= *=/"
print ""
print "#include \"defs.h\"
print "#include \"command.h\"
print "#include \"gdbcmd.h\"
print ""
print "static void show_copying_command (char *, int);"
print ""
print "static void show_warranty_command (char *, int);"
print ""
print "void _initialize_copying (void);"
print ""
print "static void";
print "show_copying_command (char *ignore, int from_tty);
print "{";
}
NR == 1;/^[ ]*15\. Disclaimer of Warranty\\[ ]*$/
if ($0 ~ //)
{
 printf " printf_filtered (\"\n\n\n\n\n"
;}
else if ($0 !~ /^[ ]*15\. Disclaimer of Warranty\\[ ]*$/
{
 printf " printf_filtered (\""
 for (i = 1; i < NF; i++)
printf "%s\\n", $i;
 printf "%s\\n\n\n", $NF;
}
}
/*[ ]*15\. Disclaimer of Warranty\\[ ]*$/
print "]";
print "";
print "static void"
print "show_warranty_command (char *ignore, int from_tty)"
print "{";
}

/*[ ]*15. Disclaimer of Warranty.[ ]*$/, /*[ ]*END OF TERMS AND CONDITIONS[ ]*$/
if (! ($0 ~ /*[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
{
    printf "  printf_filtered (""
    for (i = 1; i < NF; i++)
printf "%s\\n", $i;
    printf "%s\\n
", $NF;
}

END{
    print ";
    print "";
    print "void"
    print "_initialize_copying (void)"
    print "{";
    print " add_cmd ("copying", no_set_class, show_copying_command,"
    print "  _("Conditions for redistributing copies of GDB."),
    print "  &showlist);"
    print " add_cmd ("warranty", no_set_class, show_warranty_command,"
    print "  _("Various kinds of warranty you do not have."),
    print "  &showlist);"
    print "";
    print " */ For old-timers, allow "info copying", etc. */
    print " add_info ("copying", show_copying_command,"
    print "  _("Conditions for redistributing copies of GDB."));"
    print " add_info ("warranty", show_warranty_command,"
    print "  _("Various kinds of warranty you do not have."));"
    print "]";";

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1.374 spring-tx 3.0.5.RELEASE

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* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/TransactionException.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/NestedTransactionNotSupportedException.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/dao/support/DaoSupport.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/DataRetrievalFailureException.java
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* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/InvalidTimeoutException.java
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* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/interceptor/NameMatchTransactionAttributeSource.java
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* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/support/ResourceHolderSupport.java
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* /opt/ cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/connection/NotSupportedRecordFactory.java
* /opt/ cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/object/EisOperation.java
* /opt/ cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/Object/RecordTypeNotSupportedException.java
* /opt/ cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/Object/RecordTypeNotSupportedException.java
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* /opt/ cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/Object/RecordTypeNotSupportedException.java

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*
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   usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/

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1.380 systemd 219 19.el7

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compiler/cpp/src/generate/t_erl_generator.cc
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compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
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compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TFIELD.cs
lib/csharp/src/Protocol/TList.cs
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lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
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lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/ThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/Thrift.sln
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
```
lib/csharp/src/Transport/TSocket.cs
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lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
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* 
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* 
* http://code.google.com/p/curve25519-donna/
* 
* Adam Langley <agl@imperialviolet.org>
* 
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* 
* 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 qhasm 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.
*/

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1.413 pcre 8.32 15.el7

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1.414 jackson-jaxrs 1.9.2

1.415 cxf-xjc-runtime 3.0.2

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Rybinkin, Eygene
Sato, Yuichi
Sánchez, Wilfredo
Saucier, Jean-François
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frédric
Margeviuis, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
Uranga, Mikel Olasagasti
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* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
  jar/com/sun/syndication/io/impl/Atom10Generator.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
  jar/com/sun/syndication/io/impl/RSS094Parser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
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  jar/com/sun/syndication/feed/module/DCSubjectImpl.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
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  jar/com/sun/syndication/feed/module/SyModuleImpl.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-
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* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/SyndFeed.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/WireFeedOutput.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/WireFeedInput.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/rss/Description.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/SyndFeedInput.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/module/DCModule.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS091Netscape.java
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* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/RSS20Parser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/atom/Link.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/RSS20wNSParser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/RSS091UserlandGenerator.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/atom/Content.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/ParsingFeedException.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/Atom10Parser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/SyModuleGenerator.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/module/Module.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/FeedException.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/impl/DCModuleParser.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/io/XmlReader.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/module/Extendable.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/SyndFeedImpl.java
* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4-jar/com/sun/syndication/feed/synd/SyndLink.java
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* /opt/cola/permits/1135952932_1613641210.3/0/rome-1-0-sources-4.jar/com/sun/syndication/io/impl/XmlFixerReader.java

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<body>

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<div id="container">
<div id="content">
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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
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README for release 6b of 27-Mar-1998

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DOCUMENTATION ROADMAP

This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

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

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

OVERVIEW
========

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

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

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

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

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

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

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

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

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REFERENCES
==========

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

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

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

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

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

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

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

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

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

ARCHIVE LOCATIONS
=================

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

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

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

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

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

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

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest
version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

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

FILE FORMAT WARS
=================

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

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

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

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

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

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

As always, speeding things up is of great interest.

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

1.447 angular-animate 1.6.8
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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".
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.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

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Version 3, 29 June 2007

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Preamble

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The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
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any other work released this way by its authors. You can apply it to
your programs, too.

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

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

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

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

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


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

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

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

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

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.


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receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

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

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

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

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

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

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

6. Conveying Non-Source Forms.

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

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

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

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

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

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1.460 libunistring 0.9.3 9.el7

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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You should also get your employer (if you work as a programmer) or your
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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

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

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

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

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

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

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

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

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

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

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

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

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

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

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates
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network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

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@c End:

1.467 tools-ant 1.8.2

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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 */
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/* * 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) */

/* ***************************************************************************/

uic3: property `paletteBackgroundColor' for widget `title' of type `QLabel' is not supported. Line: 64 Column: 47
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</property>

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  <enum>RichText</enum>
</property>

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A "png_get_copyright" function is available, for convenient use in "about" boxes and the like:

```c
printf("%s", png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson
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March 29, 2012
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Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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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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.

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

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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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Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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This is JavaScriptCore's variant of the PCRE library. While this library
started out as a copy of PCRE, many of the features of PCRE have been removed.

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1.471 lua 5.1.4

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1.472 file 5.11 35.el7

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Bundled Libraries:

****** Base 64 Library (base64/base64.hpp) ******
base64.hpp is a repackaging of the base64.cpp and base64.h files into a
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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

****** SHA1 Library (sha1/sha1.hpp) ******
sha1.hpp is a repackaging of the sha1.cpp and sha1.h files from the smallsha1
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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
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L. Peter Deutsch  
ghost@aladdin.com

****** UTF8 Validation logic (utf8_validation.hpp) ******
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1.474 glibc 2.13

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

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.
This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

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

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don’t assume that anything in it is
the same as in the ordinary license.

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

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

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

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

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

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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.

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

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

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

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

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

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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

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

That's all there is to it!

This part of the FAQ is based on a series of questions we asked the FSF to understand how the GPL works and how patents affects the GPL. These questions were answered by the FSF lawyers, so we view them as the final interpretation on how the GPL and LGPL interact with patents in our opinion. This consultancy was paid for by Fluendo in order to obtain clear and quotable answers. These answers were certified by the FSF lawyer team and verified by FSF lawyer and law professor Eben Moglen.
Can someone distribute the combination of
GStreamer, the LGPL library
MyPlayer, a GPL playback application
The binary-only Sorenson decoder
together in one distribution/operating system? If not, what
needs to be changed to make this possible?

This would be a problem, because the GStreamer and MyPlayer licenses would
forbid it. In order to link GStreamer to MyPlayer, you need to use section
3 of the LGPL to convert GStreamer to GPL. The GPL version of GStreamer
forbids linking to the Sorenson decoder. Anyway, the MyPlayer GPL
license forbids this.

If the authors of MyPlayer want to permit this, we have an
exception for them: the controlled interface exception from the FAQ.
The idea of this is that you can't get around the GPL just by including
a LGPL bit in the middle.

Note: MyPlayer is a completely fictitious application at the time of writing.

Suppose Apple wants to write a binary-only proprietary
plugin for GStreamer to decode Sorenson video, which will be shipped
stand-alone, not part of a package like in the question above.
Can Apple distribute this binary-only plugin?

Answer
Yes, modulo certain reverse engineering requirements in section 6 of the LGPL.

If a program released under the GPL uses a library that is LGPL, and this library can dlopen plug-ins at runtime, what are the requirements for the license of the plug-in?

You may not distribute the plug-in with the GPL application. Distributing the plug-in alone, with the knowledge that it will be used primarily by GPL software is a bit of an edge case. We will not advise you that it would be safe to do so, but we also will not advise you that it would be absolutely forbidden.

Can someone in a country that does not have software patents distribute code covered by US patents under the GPL to people in, for example, Norway?

If he/she visits the US, can he/she be arrested?

Yes, he can.

No, there are no criminal penalties for patent infringement in the US.

Can someone from the US distribute software covered by
US patents under the GPL to people in Norway? To people in the US?
</para>
</question>

<answer>
<para>
This might infringe some patents, but the GPL would not forbid it
absent some actual restriction, such as a court judgement or agreement.
The US government is empowered to refuse importation of patent
infringing devices, including software.
</para>
</answer>

<qandaentry>
<question id="legal-gpl-library-patents">
<para>
There are a lot of GPL- or LGPL-licensed libraries that
handle media codecs which have patents. Take mad, an mp3 decoding library,
as an example. It is licensed under the GPL. In countries where patents
are valid, does this invalidate the GPL license for this project?
</para>
</question>

<answer>
<para>
The mere existence of a patent which might read on the program does not
change anything. However, if a court judgement or other agreement
prevents you from distributing libmad under GPL terms, you can not
distribute it at all.
</para>
</answer>

<para>
The GPL and LGPL say (sections 7 and 11):
<quote>If you cannot distribute so as to satisfy simultaneously your
obligations under this License and any other pertinent obligations, then
as a consequence you may not distribute the Library at all.</quote>
</para>
</qandaentry>

<qandaentry>
<question id="legal-gpl-court-judgment">
<para>
So let's say there is a court judgement. Does this mean that the GPL license is
invalid for the project everywhere, or only in the countries where it conflicts
with the applicable patents?
</para>
</question>

<answer>
<para>
</para>
</answer>
The GPL operates on a per-action, not per-program basis. That is, if you are in a country which has software patents, and a court tells you that you cannot distribute (say) libmad in source code form, then you cannot distribute libmad at all. This doesn't affect anyone else.

Patented decoding can be implemented in GStreamer either by having a binary-only plugin do the decoding, or by writing a plugin (with any applicable license) that links to a binary-only library. Does this affect the licensing issues involved in regards to GPL/LGPL?

No.

Is it correct that you cannot distribute the GPL mad library to decode mp3's, *even* in the case where you have obtained a valid license for decoding mp3?

The only GPL-compatible patent licenses are those which are open to all parties possessing copies of GPL software which practices the teachings of the patent.

If you take a license which doesn't allow others to distribute original or modified versions of libmad practicing the same patent
1.477 neko-html 1.9.6.2

1.478 eclipse-osgi 3.6.1.R36x_v20100806

1.478.1 Available under license:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

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"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

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#!/usr/bin/env python

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#
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#
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# (at your option) any later version.
#

This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:

```
% filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
```

This removes the bulk of the changes which are most likely to be correct.

```python
import datetime
import os
import os.path
import subprocess

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

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!).  The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        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):
```

```
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("\n"):
            line = line[:-1]
        if line.endswith(warning_string):
            filename = line[:-warning_len]
            if may_have_copyright_notice(filename):
                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 "\033[31mREMINDER: The following files must be updated by hand." \
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", "aconfig.m4",  
)

# The list of files to update by hand.
BY_HAND = (  
    # These files are sensitive to line numbering.  
    "gdb/testsuite/gdb.base/step-line.inp",  
    "gdb/testsuite/gdb.base/step-line.c",  
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (  
    "gdb/doc/gdb.texinfo",  
    "gdb/doc/refcard.tex",  
)
"gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.

NOT_FSF_LIST = (  
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",
    "sim/arm/armmenu.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/Arm5os.h", "sim/arm/armcpro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-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/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.c",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emu_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-configure.h", "sim/ppc/ld-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
    "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
    "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
    "sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
    "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
    "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
    "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
    "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
    "sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
    "sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
    "sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c"
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idcode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idcode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()

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

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

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

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

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

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

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

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

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

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

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

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a) Accompany the combined library with a copy of the same work
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@appendixsubsec Preamble

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

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```
@var{one line to give the library's name and an idea of what it does.}
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@end smallexample

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

@var{signature of Ty Coon}, 1 April 1990
Ty Coon. President of Vice
That's all there is to it!

BEGIN{
    FS="";
    print "/* ==> Do not modify this file!!  */
    ".-*- buffer-read-only: t -*- vi" 
    ":set ro:"
    print " It is created automatically by copying.awk;">
    print " Modify copying.awk instead. <=* */
    print ""
    print "#include \"defs.h\""
    print "#include \"command.h\"
    print "#include \"gdbcmd.h\"
    print ""
    print "static void show_copying_command (char *, int);"
    print ""
    print "static void show_warranty_command (char *, int);"
    print ""
    print "void _initialize_copying (void);"
    print ""
    print "static void";
    print "show_copying_command (char *ignore, int from_tty);"
    print ";
}
NR == 1,/*[ ]*15\. Disclaimer of Warranty]/[ ]*$/{
    if ($0 ~ /*)
    {
        printf " printf_filtered (\"\n\")\n;"
    }
    else if ($0 !~ /*[ ]*15\. Disclaimer of Warranty]/[ ]*$/)
    {
        printf " printf_filtered (\"\"
        for (i = 1; i < NF; i++)
        printf "\%s\n", $i;
        printf "\%s\n\"\n", $NF;
    }
}
/*[ ]*15\. Disclaimer of Warranty]/[ ]*$/{
    print ");"
    print ""
    print "static void";
    print "show_warranty_command (char *ignore, int from_tty)"
    print ";
}
/*[ ]*15\. Disclaimer of Warranty]/[ ]*$/; /* END OF TERMS AND CONDITIONS*/
if (! ($0 ~ /*[ ]*END OF TERMS AND CONDITIONS*/)
{
}
printf " printf_filtered ("\n";  
for (i = 1; i < NF; i++)  
printf "%s\n", $i;  
printf "%s\n\n\n);\n", $NF;  
}  
}  
END{  
print "\}\n";  
print "\n";  
print "void"  
print "_initialize_copying (void)\n";  
print "\n";  
print " add_cmd ("copying", no_set_class, show_copying_command,\n";  
print " _("Conditions for redistributing copies of GDB.\"),\n";  
print " &showlist);\n";  
print " add_cmd ("warranty", no_set_class, show_warranty_command,\n";  
print " _("Various kinds of warranty you do not have:\"),\n";  
print " &showlist);\n";  
print "\n";  
print " /* For old-timers, allow \"info copying\", etc. */\n";  
print " add_info ("copying\", show_copying_command,\n";  
print " _("Conditions for redistributing copies of GDB.\"));\n";  
print " add_info ("warranty\", show_warranty_command,\n";  
print " _("Various kinds of warranty you do not have:\"));\n";  
print "\}\n";  

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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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
creates an executable that is a derivative of the Library (because it
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
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file is unrestricted, regardless of whether it is legally a derivative
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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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*/
1.496 xml-apis 2.0.2

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/**
 * Base class for deriving an XML filter.
 *
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This class is designed to sit between an XMLReader and the client application's event handlers. By default, it does nothing but pass requests up to the reader and events on to the handlers unmodified, but subclasses can override specific methods to modify the event stream or the configuration requests as they pass through.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.XMLFilter
 * @see org.xml.sax.XMLReader
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.ContentHandler
 * @see org.xml.sax.ErrorHandler
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/XMLFilterImpl.java
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/**
 * Basic interface for SAX error handlers.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * If a SAX application needs to implement customized error
* handling, it must implement this interface and then register an
* instance with the XML reader using the
* {@link org.xml.sax.XMLReader#setErrorHandler setErrorHandler}
* method. The parser will then report all errors and warnings
* through this interface.</p>
* 
* <p><strong>WARNING:</strong> If an application does <em>not</em> register an ErrorHandler, XML parsing errors will go unreported
* and bizarre behaviour may result.</p>
* 
* <p>For XML processing errors, a SAX driver must use this interface
* instead of throwing an exception: it is up to the application
* to decide whether to throw an exception for different types of
* errors and warnings. Note, however, that there is no requirement that
* the parser continue to provide useful information after a call to
* {@link #fatalError fatalError} (in other words, a SAX driver class
* could catch an exception and report a fatalError).</p>
* 
* @since SAX 1.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setErrorHandler
* @see org.xml.sax.SAXParseException
*/

Found in path(s):
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ErrorHandler.java

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/**
* Interface for a list of XML attributes.
* 
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* </blockquote>
* 
* This interface allows access to a list of attributes in
* three different ways:</p>
* 
* <ol>
* <li>by attribute index;</li>
* <li>by Namespace-qualified name; or</li>
* <li>by qualified (prefixed) name.</li>
* </ol>
The list will not contain attributes that were declared #IMPLIED but not specified in the start tag. It will also not contain attributes used as Namespace declarations (xmlns*) unless the feature is set to true (it is false by default). 

If the namespace-prefixes feature is false, access by qualified name may not be available; if the feature is false, access by Namespace-qualified names may not be available.

This interface replaces the now-deprecated SAX1 AttributeList interface, which does not contain Namespace support. In addition to Namespace support, it adds the getIndex methods (below).

The order of attributes in the list is unspecified, and will vary from implementation to implementation.

@since SAX 2.0
@version 2.0
@see org.xml.sax.helpers.AttributeListImpl

Default implementation for AttributeList.

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AttributeList implements the deprecated SAX1 AttributeList interface, and has been replaced by the new SAX2 AttributesImpl interface.

This class provides a convenience implementation of the SAX AttributeList interface. This implementation is useful both for SAX parser writers, who can use...
* it to provide attributes to the application, and for SAX application
* writers, who can use it to create a persistent copy of an element's
* attribute specifications:</p>
*
* <pre>
* private AttributeList myatts;
*
* public void startElement (String name, AttributeList atts)
* {
*    // create a persistent copy of the attribute list
*    // for use outside this method
*    myatts = new AttributeListImpl(atts);
*    [...]
* }
* </pre>
*
* Please note that SAX parsers are not required to use this
* class to provide an implementation of AttributeList; it is
* supplied only as an optional convenience. In particular,
* parser writers are encouraged to invent more efficient
* implementations.</p>
*
* @deprecated This class implements a deprecated interface,
* {@link org.xml.sax.AttributeList AttributeList};
* that interface has been replaced by
* {@link org.xml.sax.Attributes Attributes},
* which is implemented in the
* AttributesImpl helper class.
* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.AttributeList
* @see org.xml.sax.DocumentHandler#startElement
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/AttributeListImpl.java
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/**
* Interface for an XML filter.
* *
* <blockquote>
* <em>This module, both source code and documentation, is in the
An XML filter is like an XML reader, except that it obtains its events from another XML reader rather than a primary source like an XML document or database. Filters can modify a stream of events as they pass on to the final application.

The XMLFilterImpl helper class provides a convenient base for creating SAX2 filters, by passing on all EntityResolver, DTDHandler, ContentHandler and ErrorHandler events automatically.

@since SAX 2.0
@author David Megginson, sax@megginson.com
@version 2.0
@see org.xml.sax.helpers.XMLFilterImpl

If a SAX parser provides location information to the SAX application, it does so by implementing this interface and then passing an instance to the application using the content handler's setDocumentLocator method. The application can use the object to obtain the location of any other content handler event in the XML source document.

Note that the results returned by the object will be valid only during the scope of each content handler method: the application will receive unpredictable results if it attempts to use the locator at any other time.

SAX parsers are not required to supply a locator, but they are very strongly encouraged to do so. If the parser supplies a location, the SAX application will obtain the location of that event using this interface.

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLFilter.java
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* locator, it must do so before reporting any other document events.
* If no locator has been set by the time the application receives
* the [link org.xml.sax.ContentHandler#startDocument startDocument]
* event, the application should assume that a locator is not
* available.</p>
* 
* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.ContentHandler#setDocumentLocator
*/

Found in path(s):
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/**
* Receive notification of basic DTD-related events.
* 
* <blockquote>
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* </blockquote>
* 
* <p>If a SAX application needs information about notations and
* unparsed entities, then the application implements this
* interface and registers an instance with the SAX parser using
* the parser's setDTDHandler method. The parser uses the
* instance to report notation and unparsed entity declarations to
* the application. </p>
* 
* <p>Note that this interface includes only those DTD events that
* the XML recommendation <em>requires</em> processors to report:
* notation and unparsed entity declarations. </p>
* 
* <p>The SAX parser may report these events in any order, regardless
* of the order in which the notations and unparsed entities were
* declared; however, all DTD events must be reported after the
* document handler's startDocument event, and before the first
* startElement event. </p>
* 
* <p>It is up to the application to store the information for
* future use (perhaps in a hash table or object tree).
* If the application encounters attributes of type "NOTATION",
* "ENTITY", or "ENTITIES", it can use the information that it
* obtained through this interface to find the entity and/or
* notation corresponding with the attribute value.</p>
Found in path(s):
/  

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This class implements the default behaviour for four SAX1
interfaces: EntityResolver, DTDHandler, DocumentHandler,
and ErrorHandler. It is now obsolete, but is included in SAX2 to
support legacy SAX1 applications. SAX2 applications should use
the DefaultHandler class instead.

Application writers can extend this class when they need to
implement only part of an interface; parser writers can
instantiate this class to provide default handlers when the
application has not supplied its own.

Note that the use of this class is optional.
/* @deprecated This class works with the deprecated
 *             {@link org.xml.sax.DocumentHandler DocumentHandler}
 *             interface. It has been replaced by the SAX2
 *             {@link org.xml.sax.helpers.DefaultHandler DefaultHandler}
 *            class.
 * @since SAX 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.DocumentHandler
 * @see org.xml.sax.ErrorHandler
 */

Found in path(s):
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/ls/DOMInputSource.java
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/xpath/XPathNSResolver.java
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/ls/DOMEntityResolver.java
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 */

/**
 * <strong>DOM Level 3 WD Experimental:</strong>
 * The DOM Level 3 specification is at the stage
 * of Working Draft, which represents work in
 * progress and thus may be updated, replaced,
 * or obsoleted by other documents at any time.<strong> <p>
 * <code>XPathEvaluator</code>, which will provide evaluation of XPath 1.0
 * expressions with no specialized extension functions or variables. It is
 * expected that the <code>XPathEvaluator</code> interface will be
 * implemented on the same object which implements the <code>Document</code>
 * interface in an implementation which supports the XPath DOM module.
 * <code>XPathEvaluator</code> implementations may be available from other
 * sources that may provide support for special extension functions or
 * variables which are not defined in this specification. The methods of
 * XPathExpression should be named with more-XPath- specific names because
 * the interface will often be implemented by the same object which
 * implements document.No change.The point of interfaces is to localize the
 * implementing namespace. This would make the method names unnecessarily
 * long and complex even though there are no conflicts in the interface
 * itself. The new core method getInterface is designed for discovering
 * interfaces of additional modules that may not be directly implemented on
 * the objects to which they are attached. This could be used to implement
 * XPath on a separate object. The user only refers to the separate
 * interfaces and not the proprietary aggregate implementation.Should entity
 * refs be supported so that queries can be made on them?No change.We will

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* not do this now. They are not part of the XPath data model. Note that
* they may be present in the hierarchy of returned nodes, but may not
* directly be requested or returned in the node set. What does createResult
* create when one wants to reuse the XPath? It is not useful. Removed method.
* Should ordering be a separate flag, or a type of result that can be
* requested. As a type of result, it can be better optimized in
* implementations. It makes sense as a type of result. Changed. Removed
* method. Implementing XPathEvaluator on Document can be a problem due to
* conflicts in the names of the methods. The working group finds no better
* solution. GetInterface in Level 3 permits the object to be implemented
* separately. We should be committed to this. We will leave this issue open
* to see if we get more feedback on it. How does this interface adapt to
* XPath 2.0 and other query languages. No change. This interface is not
* intended to adapt to XPath 2.0 or other languages. The models of these
* are likely to be incompatible enough to require new APIs. For alternate
* implementations that can use this API, it can be obtained from different
* sources. Support for custom variables and functions would be very useful.
* No change. It is possible for an implementation to supply alternative
* sources of an XPathEvaluator that can be customized with a custom
* variable and function context. We do not specify how this is
* accomplished. It is too complex to address in this version of the XPath
* DOM.
* <p>See also the <a href='http://www.w3.org/TR/2002/WD-DOM-Level-3-XPath-20020328'>Document Object Model (DOM) Level 3 XPath Specification</a>.</p>
*/

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/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathEvaluator.java
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/**
 * Interface for an element's attribute specifications.
 *
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 * Public Domain, and comes with <strong>NO WARRANTY</strong></em>.
 * </blockquote>
 *
 * This is the original SAX1 interface for reporting an element's
 * attributes. Unlike the new {@link org.xml.sax.Attributes Attributes}
 * interface, it does not support Namespace-related information.</p>
 * *
 * <p>When an attribute list is supplied as part of a
 * [{@link org.xml.sax.DocumentHandler#startElement startElement}]
 * event, the list will return valid results only during the
 * scope of the event; once the event handler returns control
 * to the parser, the attribute list is invalid. To save a
* persistent copy of the attribute list, use the SAX1
* {@link org.xml.sax.helpers.AttributeListImpl AttributeListImpl}
* helper class.</p>
*
* &lt;p&gt;An attribute list includes only attributes that have been
* specified or defaulted: #IMPLIED attributes will not be included.&lt;/p&gt;
* 
* &lt;p&gt;There are two ways for the SAX application to obtain information
* from the AttributeList. First, it can iterate through the entire
* list:&lt;/p&gt;
*
* &lt;pre&gt;
* public void startElement (String name, AttributeList atts) {
*   for (int i = 0; i < atts.getLength(); i++) {
*     String name = atts.getName(i);
*     String type = atts.getType(i);
*     String value = atts.getValue(i);
*     [...]
*   }
* }
* &lt;/pre&gt;
*
* &lt;p&gt;(Note that the result of getLength() will be zero if there
* are no attributes.)
*
* &lt;p&gt;As an alternative, the application can request the value or
* type of specific attributes:&lt;/p&gt;
*
* &lt;pre&gt;
* public void startElement (String name, AttributeList atts) {
*   String identifier = atts.getValue("id");
*   String label = atts.getValue("label");
*   [...]
* }
* &lt;/pre&gt;
*
* @deprecated This interface has been replaced by the SAX2
* { @link org.xml.sax.Attributes Attributes }
* interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
* &lt;a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.DocumentHandler#startElement startElement
* @see org.xml.sax.helpers.AttributeListImpl AttributeListImpl
*/

Found in path(s):
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The order of events in this interface is very important, and mirrors the order of information in the document itself. For example, all of an element's content (character data, processing instructions, and/or subelements) will appear, in order, between the startElement event and the corresponding endElement event.

Application writers who do not want to implement the entire interface can derive a class from HandlerBase, which implements the default functionality; parser writers can instantiate HandlerBase to obtain a default handler. The application can find the location of any document event using the Locator interface supplied by the Parser through the setDocumentLocator method.

@deprecated This interface has been replaced by the SAX2 { @link org.xml.sax.ContentHandler ContentHandler} interface, which includes Namespace support.

@since SAX 1.0
@version 2.0
@see org.xml.sax.Parser#setDocumentHandler
@see org.xml.sax.Locator
@see org.xml.sax.HandlerBase

// NO WARRANTY! This class is in the Public Domain.
/**
 * Factory for creating an XML reader.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 * See [http://www.saxproject.org](http://www.saxproject.org) for further information.
 *
 * This class contains static methods for creating an XML reader
 * from an explicit class name, or based on runtime defaults:
 *
 * try {
 *   XMLReader myReader = XMLReaderFactory.createXMLReader();
 * } catch (SAXException e) {
 *   System.err.println(e.getMessage());
 * }
 *
 * Note to Distributions bundled with parsers:
 * You should modify the implementation of the no-arguments
 * createXMLReader to handle cases where the external
 * configuration mechanisms aren't set up. That method should do its
 * best to return a parser when one is in the class path, even when
 * nothing bound its class name to org.xml.sax.driver so
 * those configuration mechanisms would see it.
 *
 * @since SAX 2.0
 * @author David Megginson, David Brownell
 * @version 2.0r2pre3
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/XMLReaderFactory.java
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// This class is in the Public Domain. NO WARRANTY!
/**
 * Encapsulate Namespace logic for use by SAX drivers.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
* <p>This class encapsulates the logic of Namespace processing:
* it tracks the declarations currently in force for each context
* and automatically processes qualified XML 1.0 names into their
* Namespace parts; it can also be used in reverse for generating
* XML 1.0 from Namespaces.</p>
*
* Namespace support objects are reusable, but the reset method
* must be invoked between each session.</p>
*
* Here is a simple session:</p>
*
* <pre>
* String parts[] = new String[3];
* NamespaceSupport support = new NamespaceSupport();
* 
* support.pushContext();
* support.declarePrefix("", "http://www.w3.org/1999/xhtml");
* support.declarePrefix("dc", "http://www.purl.org/dc#");
* 
* String parts[] = support.processName("p", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);
* 
* String parts[] = support.processName("dc:title", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);
* 
* support.popContext();
* </pre>
*
* Note that this class is optimized for the use case where most
* elements do not contain Namespace declarations: if the same
* prefix/URI mapping is repeated for each context (for example), this
* class will be somewhat less efficient.</p>
*
* @since SAX 2.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/NamespaceSupport.java
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// NO WARRANTY! This class is in the public domain.
/**
 * Default base class for SAX2 event handlers.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This class is available as a convenience base class for SAX2
 * applications: it provides default implementations for all of the
 * callbacks in the four core SAX2 handler classes: </p>
 *
 * <ul>
 * <li>{@link org.xml.sax.EntityResolver EntityResolver}</li>
 * <li>{@link org.xml.sax.DTDHandler DTDHandler}</li>
 * <li>{@link org.xml.sax.ContentHandler ContentHandler}</li>
 * <li>{@link org.xml.sax.ErrorHandler ErrorHandler}</li>
 * </ul>
 *
 * Application writers can extend this class when they need to
 * implement only part of an interface; parser writers can
 * instantiate this class to provide default handlers when the
 * application has not supplied its own. </p>
 *
 * This class replaces the deprecated SAX1
 * { @link org.xml.sax.HandlerBase HandlerBase } class. </p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.ContentHandler
 * @see org.xml.sax.ErrorHandler
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/DefaultHandler.java

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/**
 * Encapsulate an XML parse error or warning.
 *
 * <blockquote>
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* Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
* </blockquote>
* 
* <p>This exception will include information for locating the error
* in the original XML document. Note that although the application
* will receive a SAXParseException as the argument to the handlers
* in the [@link org.xml.sax.ErrorHandler ErrorHandler] interface,
* the application is not actually required to throw the exception;
* instead, it can simply read the information in it and take a
* different action.</p>
* 
* <p>Since this exception is a subclass of [@link org.xml.sax.SAXException
* SAXException], it inherits the ability to wrap another exception.</p>
* 
* @since SAX 1.0
* @author David Megginson,
* @see org.xml.sax.SAXException
* @see org.xml.sax.Locator
* @see org.xml.sax.ErrorHandler
* */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXParseException.java
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* */

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/RangeException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CharacterData.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/NamedNodeMap.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Text.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/Event.java
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/**
 * Basic interface for resolving entities.
 *<em>This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY.</em>
 */
If a SAX application needs to implement customized handling for external entities, it must implement this interface and register an instance with the SAX driver using the `@link org.xml.sax.XMLReader#setEntityResolver` method.

The XML reader will then allow the application to intercept any external entities (including the external DTD subset and external parameter entities, if any) before including them.

Many SAX applications will not need to implement this interface, but it will be especially useful for applications that build XML documents from databases or other specialised input sources, or for applications that use URI types other than URLs.

The following resolver would provide the application with a special character stream for the entity with the system identifier "http://www.myhost.com/today":

```java
import org.xml.sax.EntityResolver;
import org.xml.sax.InputSource;

public class MyResolver implements EntityResolver {
  public InputSource resolveEntity (String publicId, String systemId)
  {
    if (systemId.equals("http://www.myhost.com/today")) {
      // return a special input source
      MyReader reader = new MyReader();
      return new InputSource(reader);
    } else {
      // use the default behaviour
      return null;
    }
  }
}
```

The application can also use this interface to redirect system identifiers to local URIs or to look up replacements in a catalog (possibly by using the public identifier).

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.Parser#setEntityResolver
/* @see org.xml.sax.InputSource */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/EntityResolver.java
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 */

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBodyElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLSelectElement.java

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jar/org/w3c/dom/html/HTMLButtonElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLAreaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFontElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLIFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLDivElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLScriptElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLModElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBaseElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLQuoteElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLDOMImplementation.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLPreElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLMetaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableSectionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLObjectElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableCaptionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLMapElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLAppletElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLIsIndexElement.java
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/**
 * Provide an optional convenience implementation of Locator.
 */
This class is available mainly for application writers, who can use it to make a persistent snapshot of a locator at any point during a document parse:

```java
Locator locator;
Locator startloc;

public void setLocator (Locator locator)
{
     // note the locator
     this.locator = locator;
}

public void startDocument ()
{
     // save the location of the start of the document
     // for future use.
     Locator startloc = new LocatorImpl(locator);
}
```

Normally, parser writers will not use this class, since it is more efficient to provide location information only when requested, rather than constantly updating a Locator object.

@since SAX 1.0
@author David Megginson,
  <a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.Locator Locator
*/

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/**
 * Interface for reading an XML document using callbacks.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p><strong>Note:</strong> despite its name, this interface does
 * not extend the standard Java [ @link java.io.Reader Reader] interface, because reading XML is a fundamentally different activity
 * than reading character data.</p>
 *
 * <p>XMLReader is the interface that an XML parser's SAX2 driver must
 * implement. This interface allows an application to set and
 * query features and properties in the parser, to register
 * event handlers for document processing, and to initiate
 * a document parse.</p>
 *
 * <p>All SAX interfaces are assumed to be synchronous: the
 * [ @link #parse parse] methods must not return until parsing
 * is complete, and readers must wait for an event-handler callback
 * to return before reporting the next event.</p>
 *
 * This interface replaces the (now deprecated) SAX 1.0 [ @link
 * org.xml.sax.Parser Parser] interface. The XMLReader interface
 * contains two important enhancements over the old Parser
 * interface:</p>
 *
* <ol>
  * <li>it adds a standard way to query and set features and properties; and</li>
  * <li>it adds Namespace support, which is required for many higher-level XML standards.</li>
  * </ol>

* <p>There are adapters available to convert a SAX1 Parser to a SAX2 XMLReader and vice-versa.</p>

* @since SAX 2.0
* @author David Megginson,
  *  <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.XMLFilter
* @see org.xml.sax.helpers.ParserAdapter
* @see org.xml.sax.helpers.XMLReaderAdapter
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLReader.java
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/**
 * A single input source for an XML entity.
 *
 * <blockquote>
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 * </blockquote>
 *
 * This class allows a SAX application to encapsulate information about an input source in a single object, which may include a public identifier, a system identifier, a byte stream (possibly with a specified encoding), and/or a character stream.</p>

* <p>There are two places that the application will deliver this input source to the parser: as the argument to the Parser.parse method, or as the return value of the EntityResolver.resolveEntity method.</p>

* <p>The SAX parser will use the InputSource object to determine how to read XML input. If there is a character stream available, the parser will read that stream directly; if not, the parser will use a byte stream, if available; if neither a character stream nor a byte stream is available, the parser will attempt to open a URI connection to the resource identified by the system identifier.</p>
An InputSource object belongs to the application: the SAX parser shall never modify it in any way (it may modify a copy if necessary).

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.Parser#parse
@see org.xml.sax.EntityResolver#resolveEntity
@see java.io.InputStream
@see java.io.Reader

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/InputSource.java
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// NO WARRANTY! This class is in the Public Domain.
/**
 * Exception class for an unsupported operation.
 *
 * <blockquote>
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 * </blockquote>
 *
 * An XMLReader will throw this exception when it recognizes a feature or property identifier, but cannot perform the requested operation (setting a state or value). Other SAX2 applications and extensions may use this class for similar purposes.
 *
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.SAXNotRecognizedException

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXNotSupportedException.java
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/javax/xml/parsers/SecuritySupport.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/javax/xml/parsers/SecuritySupport12.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/SecuritySupport12.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/SecuritySupport.java
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/package.html
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// NO WARRANTY!  This class is in the public domain.
/**
 * Adapt a SAX1 Parser as a SAX2 XMLReader.
 * *
 * @since SAX 2.0
 */
* <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
* <p>This class wraps a SAX1 {@link org.xml.sax.Parser Parser}
* and makes it act as a SAX2 {@link org.xml.sax.XMLReader XMLReader},
* with feature, property, and Namespace support. Note
* that it is not possible to report {@link org.xml.sax.ContentHandler#skippedEntity
* skippedEntity} events, since SAX1 does not make that information available.</p>
* *
* <p>This adapter does not test for duplicate Namespace-qualified
* attribute names.</p>
* *
* @since SAX 2.0
/**
 * 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>
 */

/**
 * Default implementation of the Attributes interface.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * This class provides a default implementation of the SAX2
 * Attributes interface, with the
 * addition of manipulators so that the list can be modified or
 * reused.</p>
 *
 * <p>There are two typical uses of this class:</p>
 *
 * <ol>
 * <li>to take a persistent snapshot of an Attributes object
 * in a {@link org.xml.sax.ContentHandler#startElement startElement} event; or</li>
 * <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
 * </ol>
 */
* <p>This class replaces the now-deprecated SAX1 {@link org.xml.sax.helpers.AttributeSetImpl AttributeSetImpl} class; in addition to supporting the updated Attributes interface rather than the deprecated {@link org.xml.sax.AttributeList AttributeList} interface, it also includes a much more efficient implementation using a single array rather than a set of Vectors.</p>
*  
* @since SAX 2.0  
* @author David Megginson  
* @version 2.0.1 (sax2r2)  
*/

Found in path(s):  
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/AttributesImpl.java  
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// NO WARRANTY! This class is in the Public Domain.
/**  
* Create a new instance of a class by name.  
*  
* <blockquote>  
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* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>  
* for further information.  
* </blockquote>  
*  
* <p>This class contains a static method for creating an instance of a  
* class from an explicit class name. It tries to use the thread's context  
* ClassLoader if possible and falls back to using  
* Class.forName(String). It also takes into account JDK 1.2+'s  
* AccessController mechanism for performing its actions.</p>  
*  
* <p>This code is designed to run on JDK version 1.1 and later and compile  
* on versions of Java 2 and later.</p>  
*  
* @author Edwin Goei, David Brownell, Neil Graham  
* @version $Id: NewInstance.java,v 1.2 2002/08/26 23:55:45 neilg Exp $  
*/

Found in path(s):  
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/NewInstance.java  
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/**  
* Encapsulate a general SAX error or warning.
This class can contain basic error or warning information from either the XML parser or the application: a parser writer or application writer can subclass it to provide additional functionality. SAX handlers may throw this exception or any exception subclassed from it.

If the application needs to pass through other types of exceptions, it must wrap those exceptions in a SAXException or an exception derived from a SAXException.

If the parser or application needs to include information about a specific location in an XML document, it should use the SAXParseException subclass.

Exception class for an unrecognized identifier.

An XMLReader will throw this exception when it finds an unrecognized feature or property identifier; SAX applications and extensions may use this class for other, similar purposes.

Exception class for an unrecognized identifier.

An XMLReader will throw this exception when it finds an unrecognized feature or property identifier; SAX applications and extensions may use this class for other, similar purposes.

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Exception class for an unrecognized identifier.

An XMLReader will throw this exception when it finds an unrecognized feature or property identifier; SAX applications and extensions may use this class for other, similar purposes.
* @see org.xml.sax.SAXNotSupported Exception
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXNotRecognizedException.java
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*/
/**
 * Create a new <code>DOMBuilder</code>. The newly constructed parser may
 * then be configured by means of its <code>setFeature</code> method,
 * 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>DOMBuilder</code> that is created will operate in synchronous
 *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
 *   <code>DOMBuilder</code> that is created will operate in
 *   asynchronous mode.
 * @param schemaType  An absolute URI representing the type of the schema
 *   language used during the load of a <code>Document</code> using the
 *   newly created <code>DOMBuilder</code>. Note that no lexical
 *   checking is done on the absolute URI. In order to create a
 *   <code>DOMBuilder</code> for any kind of schema types (i.e. the
 *   DOMBuilder will be free to use any schema found), use the value
 *   <code>null</code>. For W3C XML Schema , applications must use the
value "http://www.w3.org/2001/XMLSchema". For XML DTD
, applications must use the value
"http://www.w3.org/TR/REC-xml". Other Schema languages
are outside the scope of the W3C and therefore should recommend an
absolute URI in order to use this method.
@returns The newly created DOMBuilder object. This
DOMBuilder is either synchronous or asynchronous
depending on the value of the mode argument. By
default, the newly created DOMBuilder does not contain
a DOMErrorHandler, i.e. the value of the
errorHandler is null. However,
implementations may provide a default error handler at creation
time. In that case, the initial value of the
errorHandler attribute on the new created
DOMBuilder 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/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/DOMImplementationLS.java
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/**
 * Basic interface for SAX (Simple API for XML) parsers.
 *
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 * Public Domain, and comes with NO WARRANTY.
 *
 * This was the main event supplier interface for SAX1; it has
 * been replaced in SAX2 by XMLReader, which includes Namespace support and sophisticated configurability
 * and extensibility.
 *
 * All SAX1 parsers must implement this basic interface: it allows
 * applications to register handlers for different types of events
 * and to initiate a parse from a URI, or a character stream.
 *
 * All SAX1 parsers must also implement a zero-argument constructor
 * (though other constructors are also allowed).
 *
 * SAX1 parsers are reusable but not re-entrant: the application
 * may reuse a parser object (possibly with a different input source)
* once the first parse has completed successfully, but it may not
* invoke the parse() methods recursively within a parse.</p>
*
* @deprecated This interface has been replaced by the SAX2
* { @link org.xml.sax.XMLReader XMLReader}
* interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*      <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
* @see org.xml.sax.HandlerBase
* @see org.xml.sax.InputSource
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Parser.java
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/**
 * SAX2 extension handler for DTD declaration events.
 *
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 * </em>
 *
 * This is an optional extension handler for SAX2 to provide
 * information about DTD declarations in an XML document. XML
 * readers are not required to support this handler, and this
 * handler is not included in the core SAX2 distribution.</p>
 *
 * Note that data-related DTD declarations (unparsed entities and
 * notations) are already reported through the { @link
 * org.xml.sax.DTDHandler DTDHandler} interface.</p>
 *
 * If you are using the declaration handler together with a lexical
 * handler, all of the events will occur between the
 * { @link org.xml.sax.ext.LexicalHandler#startDTD startDTD} and the
 * { @link org.xml.sax.ext.LexicalHandler#endDTD endDTD} events.</p>
 *
 * To set the DeclHandler for an XML reader, use the
 * { @link org.xml.sax.XMLReader#setProperty setProperty} method
 * with the propertyId "http://xml.org/sax/properties/declaration-handler".
If the reader does not support declaration events, it will throw a
{@link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException}
or a
{@link org.xml.sax.SAXNotSupportedException SAXNotSupportedException}
when you attempt to register the handler.</p>

@since 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 1.0
@see org.xml.sax.XMLReader

Java-specific class for dynamically loading SAX parsers.

This module, both source code and documentation, is in the
Public Domain, and comes with NO WARRANTY.

Note: This class is designed to work with the now-deprecated
SAX1 [@link org.xml.sax.Parser Parser] class. SAX2 applications should use
[@link org.xml.sax.helpers.XMLReaderFactory XMLReaderFactory] instead.

ParserFactory is not part of the platform-independent definition
of SAX; it is an additional convenience class designed
specifically for Java XML application writers. SAX applications
can use the static methods in this class to allocate a SAX parser
dynamically at run-time based either on the value of the
`org.xml.sax.parser' system property or on a string containing the class
name.

Note that the application still requires an XML parser that
implements SAX1.

@deprecated This class works with the deprecated
@author David Megginson
@version 2.0r2pre3
Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/xml/sax/helpers/ParserFactory.java

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/**
* Adapt a SAX2 XMLReader as a SAX1 Parser.
* 
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* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
* 
* This class wraps a SAX2 { @link org.xml.sax.XMLReader XMLReader }
* and makes it act as a SAX1 { @link org.xml.sax.Parser Parser }. The XMLReader
* must support a true value for the
* http://xml.org/sax/features/namespace-prefixes property or parsing will fail
* with a { @link org.xml.sax.SAXException SAXException }; if the XMLReader
* supports a false value for the http://xml.org/sax/features/namespaces
* property, that will also be used to improve efficiency.</p>

* @since SAX 2.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser
* @see org.xml.sax.XMLReader
*/

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 * Receive notification of the logical content of a document.
 *
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 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
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/**
 * SAX2 extension handler for lexical events.
 *
 * <blockquote>
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 * </em>
 * </blockquote>
 *
 * This is an optional extension handler for SAX2 to provide lexical
 * information about an XML document, such as comments and CDATA
 * section boundaries; XML readers are not required to support this
 * handler, and it is not part of the core SAX2 distribution.
 *
 * To set the LexicalHandler for an XML reader, use the
 * '{@link org.xml.sax.XMLReader#setProperty setProperty} method
 * with the propertyId "http://xml.org/sax/properties/lexical-handler".
 * If the reader does not support lexical events, it will throw a
 * '{@link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException}
 * or a
 * '{@link org.xml.sax.SAXNotSupportedException SAXNotSupportedException}
 * when you attempt to register the handler.
 *
 * @since 1.0
 * @author David Megginson,
 *        <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 1.0
 */

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**1.497 iputils 20160308 10.el7**

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**1.498 jaxp-api 1.4.2**

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Streaming API for XML (JSR-173) Specification
Reference Implementation
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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/LocalTimeConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/DurationConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/LocalDateTimeConverter.java
jar/org/apache/commons/beanutils/locale/converters/BigDecimalLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/CharacterConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/MethodUtils.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/LocaleConvertUtilsBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/converters/ByteLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/PropertyUtils.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/converters/SqlDateLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/BigDecimalConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/converters/SqlTimeConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/FloatConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/DynaClass.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/DynaBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/BeanUtilsBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/BasicDynaClass.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2
jar/org/apache/commons/beanutils/locale/converters/DecimalLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/LocaleBeanUtils.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/ConversionException.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/SqlTimestampConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/ByteArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/IntegerConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/DynaProperty.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/StringArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/ByteConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/BaseLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/ByteConverter.java

1.506 mariadb 5.5.56 2.el7

1.506.1 Available under license:

'#$---------------------BS_STVARS_040_01----------------------#'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'#$---------------------BS_STVARS_040_02----------------------#'
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'#$---------------------BS_STVARS_040_03----------------------#'
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
1
1 Expected
'
'###---------------------BS_STVARS_040_04----------------------#
'
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected
'
'###---------------------BS_STVARS_040_05----------------------#
'
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'
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Version 2.1, February 1999

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```sql
--echo '/*---------------------BS_STVARS_040_01----------------------*/'
--echo '

# Variable Name: license         #
# Scope: Global                  #
# Access Type: Static            #
# Data Type: string              #
#                                  #
# Creation Date: 2008-02-07       #
# Author : Sharique Abdullah      #
#                                  #
# Description: Test Cases of Dynamic System Variable license that checks the behavior of this variable in the following ways:
# * Value Check                   #
# * Scope Check                   #
#                                  #
#
#
###############################################################################
--echo '#---------------------BS_STVARS_040_02----------------------#'
--echo 'SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_03----------------------#'
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected
```
Open Source Used In Finesse Software 12.6(1)  4950

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '---------------------BS_STVARS_040_03----------------------#
# Check if the value in GLOBAL Table matches value in variable #
******************************************************************************
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '---------------------BS_STVARS_040_04----------------------#
# Check if accessing variable with and without GLOBAL point to same variable#
******************************************************************************
SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '---------------------BS_STVARS_040_05----------------------#'
# Check if license can be accessed with and without @@ sign
******************************************************************************
SELECT COUNT(@@license);
--echo 1 Expected
--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

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  <launcher>
    <solaris/>
    <win useIco="false">
      <bmp/>
    </win>
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JUnit

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**SH "NAME"

ipsec__realsetup - internal routine to start FreeS/WAN.

**SH "DESCRIPTION"

PP
\fI_realsetup\fR
is called by the system init scripts to start the FreeS/WAN system. It starts
\fBKLIPS\fR
(the kernel component) and
\fBpluto\fR
(the userspace keying component).

**SH "SEE ALSO"

PP
\fBipsec\fR(8),
\fBipsec__klipsstart\fR(8),
\fBipsec__plutorun\fR(8).

**SH "HISTORY"

PP
Man page written for the Linux FreeS/WAN project <m[blue]fBhttp://www\.freeswan\.org/fR\u005bms\n] by Michael Richardson\&. Original program by Henry Spencer\&.

**SH "AUTHOR"

PP
\fBPaul Wouters\fR
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placeholder to suppress warning
.RE
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SEE ALSO

SEE ALSO: ipsec, ipsec__klipsstart, ipsec__plutorun.

HISTORY

Man page written for the Linux FreeS/WAN project by Michael Richardson. Original program by Henry Spencer.

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See the file CREDITS for details on origins of more of the code.

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

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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1.530 quota 4.01 17.el7

1.531 tcsh 6.18.01-15.el7

1.531.1 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!

(In alphabetical order)

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Edward Lam
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* SUCH DAMAGE.
*/
/*
* 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 -- tcsh is
* built in a BSD universe.
* Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
* you are running. Or set it to 0 if you are not SYSV based
*/
#define SYSVREL 0

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

/******************** local defines ******************/
#endif /* _h_config */

---

1.532 bash 4.2.46 28.el7
1.532.1 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
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-init/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-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

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>
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

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@c End:
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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
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From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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 * Keith Whitwell <keith@tungstengraphics.com>
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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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*
* 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


*/

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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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*
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* [PM88] Stephen K. Park and Keith W. Miller. "Random Number Generators:
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*
* [Sch92] Bruce Schneier. "Pseudo-Random Sequence Generator for 32-Bit
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*
* [PMS93] Stephen K. Park, Keith W. Miller, and Paul K. Stockmeyer. In
* "Technical Correspondence: Remarks on Choosing and Implementing Random
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*
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/* drmstat.c -- DRM device status and testing program
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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/include/drm/drm.h
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* Authors:
*  Kristian Høgsberg <krh@bitplanet.net>
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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.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_ALLOC

# 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-nouveau-experimental-api],
[Enable support for nouveau's experimental API (default: disabled)]),
[NOUVEAU=$enableval], [NOUVEAU=no])

dnl ===========================================================================
dnl 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])
}

# 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])

# Use lots of warning flags with with gcc and compatible compilers

# Note: if you change the following variable, the cache is automatically
# skipped and all flags rechecked. So there's no need to do anything
# else. If for any reason you need to force a recheck, just change
# MAYBE_WARN in an ignorable way (like adding whitespace)

MAYBE_WARN="-Wall -Wextra \
    -Wsign-compare -Werror-implicit-function-declaration \
    -Wpointer-arith -Wwrite-strings -Wstrict-prototypes \
    -Wmissing-prototypes -Wmissing-declarations -Wnested-externs \
    -Wpacked -Wswitch-enum -Wmissing-format-attribute \
    -Wstrict-aliasing=2 -Winit-self -Wunsafe-loop-optimizations \
    -Wdeclaration-after-statement -Wold-style-definition \
    -Wno-missing-field-initializers -Wno-unused-parameter \n    -Wno-attributes -Wno-long-long -Winline"

# 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 "xSUDEV" = xyes; then
    AC_DEFINE(UDEV, 1, [Have UDEV support])
fi

AC_CANONICAL_HOST
if test "xSLIBKMS" = xauto; then
case $host_os in
    linux*)
        LIBKMS="yes" ;;
    * )LIBKMS="no" ;;
esac
fi

AM_CONDITIONAL(HAVE_LIBKMS, [test "xSLIBKMS" = 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])
fi

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 libatomic-ops-op-dev package, or, failing both of those,
            disable support for Intel GPUs by passing --disable-intel to ./configure])
            fi
        else
            AC_DEFINE(HAVE_LIBDRM_ATOMIC_PRIMITIVES, 0,
            [Disable if you do not have support for Intel GPUs])
        fi
    fi
fi

if test "x$drm_cv_atomic_primitives" = "xnone"; then
    if test "x$INTEL" != "xauto"; then
        if test "x$INTEL" != "xno"; then
            AC_MSG_ERROR([libdrm_intel depends upon atomic operations, which were not found for your
            compiler/cpu. Try compiling with -march=native, or install the libatomic-ops-op-dev package, or, failing both of those,
            disable support for Intel GPUs by passing --disable-intel to ./configure])
            fi
        else
            AC_DEFINE(HAVE_LIBDRM_ATOMIC_PRIMITIVES, 0,
            [Disable if you do not have support for Intel GPUs])
        fi
    fi
fi
AC_MSG_WARN([Disabling libdrm_intel. It depends on atomic operations, which were not found for your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.])
INTEL=no
fi
if test "x$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/Makefile
 libkms/libkms.pc
 intel/Makefile
 intel/libdrm_intel.pc
 radeon/Makefile
 radeon/libdrm_radeon.pc
 nouveau/Makefile
 nouveau/libdrm_nouveau.pc
 tests/Makefile
 tests/modeprint/Makefile

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tests/modetest/Makefile
tests/kmstest/Makefile
tests/vbltest/Makefile
include/Makefile
include/drm/Makefile
libdrm.pc])

echo ""
echo "$PACKAGE_STRING will be compiled with:"
echo ""
echo " libkms $LIBKMS"
echo " Intel API $INTEL"
echo " vmwgfex API $VMWGFX"
echo " Radeon API $RADEON"
echo " Nouveau API $NOUVEAU"
echo ""

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 *
 * Authors: Rickard E. (Rik) Faith <faith@valinux.com>
DESCRIPTION

This file contains a straightforward skip list implementation.

FUTURE ENHANCEMENTS

REFERENCES


1.535 aopalliance-repackaged 2.3.0-b10

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

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* @param emf EntityManagerFactory to obtain Entity Managers from as needed
* @param properties the properties to be passed into the
* <code>createEntityManager</code> call (may be <code>null</code>)
* @param entityManagerInterfaces the interfaces to be implemented by the
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* @return a shareable transactional EntityManager proxy
*/

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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-
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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-
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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jpa/EntityManagerPlus.java
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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/hibernate3/HibernateQueryException.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jdo/JdoUsageException.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/hibernate3/support/ClobStringType.java
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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jpa/EntityManagerFactoryUtils.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitReader.java
1.558 pcre 8.32

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1.561 llvm 6.0.1-2.el7
1.561.1 Available under license:

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
    %L34 = load i8, i8* %0
    %Cmp56 = icmp sgt i8 undef, %L34
    br label %CF246
CF246:                                            ; preds = %CF246, %BB
    %SI163 = select i1 %Cmp56, i8 %L34, i8 undef
    br i1 undef, label %CF246, label %CF248
CF248:                                            ; preds = %CF248, %CF246
    store i8 %SI163, i8* %0
    br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |
This file primarily contains tests for specific places in X86ISelLowering.cpp that needed to be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```c
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: add256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpadd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT: vpadd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: add512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT: vpadd (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqa64 %zmm0, (%rax)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: avg_v64i8_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rsi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
    ; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
    ; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
    ; CHECK-NEXT: vmovdqu %ymm1, (%rax)
    ; CHECK-NEXT: vmovdqu %ymm0, (%rax)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: vmovdqa (%rdi), %zmm0
    ; CHECK-NEXT: vpavgb (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT: vpavgb 32(%rsi), %zmm1, %zmm1
    ; CHECK-NEXT: vmovdqu %zmm1, (%rax)
    ; CHECK-NEXT: vmovdqu %zmm0, (%rax)
    ; CHECK-NEXT: vzeroupper
}```
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {  
; CHECK-LABEL: avg_v64i8_512:  
; CHECK: # %bb.0:  
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0  
; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0  
; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%1 = load <64 x i8>, <64 x i8>* %a  
%2 = load <64 x i8>, <64 x i8>* %b  
%3 = zext <64 x i8> %1 to <64 x i32>  
%4 = zext <64 x i8> %2 to <64 x i32>  
%5 = add nuw nsw <64 x i32> %3, %4  
%6 = add nuw nsw <64 x i32> %5, %4  
%7 = lshr <64 x i32> %6, %7  
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-NEXT: retq  
%1 = load <64 x i8>, <64 x i8>* %a  
%2 = load <64 x i8>, <64 x i8>* %b  
%3 = zext <64 x i8> %1 to <64 x i32>  
%4 = zext <64 x i8> %2 to <64 x i32>  
%5 = add nuw nsw <64 x i32> %3, %4  
%6 = add nuw nsw <64 x i32> %5, %4  
%7 = lshr <64 x i32> %6, %7  
store <64 x i8> %8, <64 x i8>* undef, align 4  
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: vpmaddwd (%rsi), %ymm0, %ymm0  
; 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_256(
;
; CHECK:    # %bb.0:  
; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0  
; 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 @psubus_64i8_max_256(
  <64 x i8>* %xptr,
  <64 x i8>* %yptr,
  <64 x i8>* %zptr)
  "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:  
; CHECK:    # %bb.0:  
; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0  
; CHECK-NEXT: 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 @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 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:
    ; 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

Open Source Used In Finesse Software 12.6(1)  5491

entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 
  [ %index.next, %vector.body ], 
  [ 0, %entry ]
%vec.phi = phi <32 x i32> 
  [ %11, %vector.body ], 
  [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
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>*
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
%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> undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
%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> 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sad_16i8_256:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB10_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm2
    ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm2, %xmm2
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm2, %ymm1
    ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:    vpshufd {{.*#*+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:    vpshufd {{.*#*+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT:    vmovd %xmm0, %eax
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    entry:
    br label %vector.body

    vector.body:
    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
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
    ; =>This Inner Loop Header: Depth=1

    %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
    %1 = bitcast i8* %0 to <16 x i8>*
    %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
    %2 = zext <16 x i8> %wide.load to <16 x i32>
    %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
    %4 = bitcast i8* %3 to <16 x i8>*
    %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
    %5 = zext <16 x i8> %wide.load1 to <16 x i32>
    %6 = sub nsw <16 x i32> %2, %5
    %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
    %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, %vector.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>
    %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>
    %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
    %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
    %12 = extractelement <16 x i32> %bin.rdx4, i32 0
    ret i32 %12
}

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>
%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>
%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:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @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: vcvtdq2pd %xmm0, %ymm1
  ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
  ; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
  ; CHECK-NEXT: vpmovm2d %k0, %ymm2
  ; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
  ; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
  ; CHECK-NEXT: vpmovm2d %k0, %ymm0
  ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
  ; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
  ; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
  ; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %l = sitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %l, <16 x double>* %res
  ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: sbto16f64_512:
  ; CHECK:    # %bb.0:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: vpmovm2d %k0, %zmm0
  ; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
  ; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
  ; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
  ; CHECK-NEXT: vmovaps %zmm1, (%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %l = sitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %l, <16 x double>* %res
  ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f32_256:
  ; CHECK:    # %bb.0:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: kshiftrw $8, %k0, %k1

Open Source Used In Finesse Software 12.6(1) 5498
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:  vpsrld $31, %zmm0, %zmm0
    ; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
    ; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = 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:  vpmovvw2m %ymm0, %k0
    ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:  vpsrld $31, %zmm0, %zmm0
    ; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
    ; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

Open Source Used In Finesse Software 12.6(1) 5499
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK:   # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: vpmovm2d %k0, %zmm0
    ; CHECK-NEXT: vpslld $31, %zmm0, %zmm0
    ; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
    ; CHECK-NEXT: vextracti64x4 %k0, %zmm0, %ymm0
    ; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT: vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %pass thru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK:   # %bb.0:
    ; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k0
    ; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: kunpckbw %k0, %k1, %k1
    ; CHECK-NEXT: vmovdqu16 %ym m0, %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> %pass thru, <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: vcvttsp2dq (%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: vcvttsp2dq (%rdi), %ymm1  
  ; CHECK-NEXT: vpmovd2m %ymm1, %k0  
  ; CHECK-NEXT: vsvttsp2dq 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: vcvttsp2dq (%rdi), %zmm1  
  ; CHECK-NEXT: vpmovd2m %zmm1, %k1  
  ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] {z}  
  ; CHECK-NEXT: retq  
  %a = load <16 x float>, <16 x float>* %ptr  
  %mask = fptosi <16 x float> %a to <16 x i1>  
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
  ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {  

; CHECK-LABEL: mul256:
; CHECK:  # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 =
  ymm2[8],ymmm0[8],ymmm0[9],ymmm0[10],ymmm2[11],ymmm2[12],ymmm2[13]
  ,ymmm0[13],ymmm2[14],ymmm0[14],ymmm2[15],ymmm0[15],ymmm2[24],ymmm0[24],ymmm2[25],ymmm0[25],ymmm2[26],ymmm0[26],ymmm2[27],ymmm0[27],ymmm2[28],ymmm0[28],ymmm2[29],ymmm0[29],ymmm2[30],ymmm0[30],ymmm2[31],ymmm0[31]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 =
  ymm0[8,9,9,10,10,11,12,13,13,14,14,15,15,24,24,25,26,26,27,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT: vpmullw %ymmm, %ymmm5, %ymmm4
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm2 =
  ymm2[0],ymmm0[0],ymmm2[1],ymmm0[1],ymmm2[2],ymmm0[2],ymmm2[3],ymmm0[3],ymmm2[4],ymmm0[4],ymmm2[5],ymmm0[5],ymmm2[6],ymmm0[6],ymmm2[7],ymmm0[7],ymmm2[16],ymmm0[16],ymmm2[17],ymmm0[17],ymmm2[18],ymmm0[18],ymmm2[19],ymmm0[19],ymmm2[20],ymmm0[20],ymmm2[21],ymmm0[21],ymmm2[22],ymmm0[22],ymmm2[23],ymmm0[23]
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm0 =
  ymm0[0,1,1,2,2,3,3,4,4,5,5,6,6,6,6,7,7,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT: vpmullw %ymmm2, %ymmm0, %ymmm
; CHECK-NEXT: vpand %ymmm5, %ymmm4, %ymmm
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm2 =
  ymm3[8],ymmm0[8],ymmm3[9],ymmm0[9],ymmm3[10],ymmm0[10],ymmm3[11],ymmm0[11],ymmm3[12],ymmm0[12],ymmm3[13],ymmm0[13],ymmm3[14],ymmm0[14],ymmm3[15],ymmm0[15],ymmm3[24],ymmm0[24],ymmm3[25],ymmm0[25],ymmm3[26],ymmm0[26],ymmm3[27],ymmm0[27],ymmm3[28],ymmm0[28],ymmm3[29],ymmm0[29],ymmm3[30],ymmm0[30],ymmm3[31],ymmm0[31]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 =
  ymm1[8],ymmm0[8],ymmm1[9],ymmm0[9],ymmm1[10],ymmm0[10],ymmm1[11],ymmm0[11],ymmm1[12],ymmm0[12],ymmm1[13],ymmm0[13],ymmm1[14],ymmm0[14],ymmm1[15],ymmm0[15],ymmm1[24],ymmm0[24],ymmm1[25],ymmm0[25],ymmm1[26],ymmm0[26],ymmm1[27],ymmm0[27],ymmm1[28],ymmm0[28],ymmm1[29],ymmm0[29],ymmm1[30],ymmm0[30],ymmm1[31],ymmm0[31]
; CHECK-NEXT: vpmullw %ymmm2, %ymmm4, %ymmm2
; CHECK-NEXT: vpand %ymmm5, %ymmm2, %ymmm2
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm3 =
  ymm3[0],ymmm0[0],ymmm3[1],ymmm0[1],ymmm3[2],ymmm0[2],ymmm3[3],ymmm0[3],ymmm3[4],ymmm0[4],ymmm3[5],ymmm0[5],ymmm3[6],ymmm0[6],ymmm3[7],ymmm0[7],ymmm3[16],ymmm0[16],ymmm3[17],ymmm0[17],ymmm3[18],ymmm0[18],ymmm3[19],ymmm0[19],ymmm3[20],ymmm0[20],ymmm3[21],ymmm0[21],ymmm3[22],ymmm0[22],ymmm3[23],ymmm0[23]
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm1 =
  ymm1[0],ymmm0[0],ymmm1[1],ymmm0[1],ymmm1[2],ymmm0[2],ymmm1[3],ymmm0[3],ymmm1[4],ymmm0[4],ymmm1[5],ymmm0[5],ymmm1[6],ymmm0[6],ymmm1[7],ymmm0[7],ymmm1[16],ymmm0[16],ymmm1[17],ymmm0[17],ymmm1[18],ymmm0[18],ymmm1[19],ymmm0[19],ymmm1[20],ymmm0[20],ymmm1[21],ymmm0[21],ymmm1[22],ymmm0[22],ymmm1[23],ymmm0[23]
; CHECK-NEXT: vpmullw %ymmm3, %ymmm1, %ymmm1
; CHECK-NEXT: vpand %ymmm5, %ymmm1, %ymmm1
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {  
    # bb.0:
    ; CHECK-NEXT:  vpackuswb %ymm2, %ymm1, %ymm1
    ; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:  vmovdqa %ymm0, (%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
}

; CHECK-LABEL: mul512:
; CHECK:  %d = load <64 x i8>, <64 x i8>* %a
; CHECK-NEXT:  %e = load <64 x i8>, <64 x i8>* %b
; CHECK-NEXT:  %f = mul <64 x i8> %d, %e
; CHECK-NEXT:  store <64 x i8> %f, <64 x i8>* %c
; CHECK-NEXT:  ret void
}
; 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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</tbody>
</table>

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
; 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
%

};

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 i32>
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>
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>
ret void
}
define void @sext512() “min-legal-vector-width”="512“ {  
; AVX-LABEL: 'sext512'  
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>  
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>  
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>  
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>  
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>  
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>  
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void  
;  
; SKX256-LABEL: 'sext512'  
; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>  
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void  
;  
; VEC512-LABEL: 'sext512'  
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>  
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>  
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>  
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>  
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>  
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>  
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void  
}
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

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*/
	@(#)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
; CHECK-DAG: sshll2.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res

; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}
define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}
define internal void @innerNoAttribute() {
  ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}
define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
    call void @innerSmall()
    ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
    call void @innerNoAttribute()
    ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG:  %\[C1:const[0-9]?\] = bitcast i32 805874720 to i32
; CHECK-DAG:  %\[C2:const[0-9]?\] = bitcast i32 805874688 to i32
; CHECK-DAG:  %\[C3:const[0-9]?\] = bitcast i32 805873720 to i32
; CHECK-DAG:  %\[C4:const[0-9]?\] = bitcast i32 805873688 to i32
; CHECK:  %0 = inttoptr i32 %\[C2\] to i8*
; CHECK-NEXT:  %1 = load volatile i8, i8* %0
; CHECK-NEXT:  %2 = inttoptr i32 %\[C2\] to i8*
; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %4 = inttoptr i32 %\[C2\] to i8*
; CHECK-NEXT:  %5 = load volatile i8, i8* %4
; CHECK-NEXT:  %6 = inttoptr i32 %\[C2\] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %8 = inttoptr i32 %\[C2\] to i8*
; CHECK-NEXT:  %9 = load volatile i8, i8* %8
; CHECK-NEXT:  %10 = inttoptr i32 %\[C2\] to i8*
; CHECK-NEXT:  %11 = inttoptr i32 %\[C2\] to i8*
; CHECK-NEXT:  store i8 %9, i8* %10
; CHECK-NEXT:  %13 = inttoptr i32 %\[C2\] to i8*
; CHECK-NEXT:  %14 = inttoptr i32 %\[C2\] to i8*
; CHECK-NEXT:  store i8 %13, i8* %14
; CHECK-NEXT:  store i8 *%13, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
  entry:
    %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
    %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
```cpp
%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
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?!]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?!]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?!]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?!]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?!]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?!]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]?!]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?!]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
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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<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Google Test</td>
<td>llvm/utils/unittest/googletest</td>
</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
</tr>
<tr>
<td>pyyaml tests</td>
<td>llvm/lib/LLVM/Parser/{*.data, LICENSE.TXT}</td>
</tr>
<tr>
<td>ARM contributions</td>
<td>llvm/lib/Target/ARM/LICENSE.TXT</td>
</tr>
<tr>
<td>md5 contributions</td>
<td>llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h</td>
</tr>
</tbody>
</table>

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```
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s ;
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res

; CHECK-LABEL: TestSelect:
; CHECK      movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT  jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT  movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT  .LBB0_2:
; CHECK-NEXT  addq $32, %rsp
; CHECK-NEXT  popq %rbx
; CHECK-NEXT  retq
}
define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
} ; CHECK-LABEL: TestFabs:
; CHECK  andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
} ; CHECK-LABEL: TestCopysign:
; CHECK  andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
} ; CHECK-LABEL: TestFneg:
; CHECK  movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

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 */
/**
*/
/**
* A SAX [@link org.xml.sax.XMLReader parser] that acts as an XStream
* [@link com.thoughtworks.xstream.io.HierarchicalStreamWriter] to enable direct generation of a
* SAX event flow from the XStream serialization of a list of list of Java objects.
* <p>
* As a
* custom SAX parser, this class ignores the arguments of the two standard parse methods ({@link
* #parse(java.lang.String)}
* and {@link #parse(org.xml.sax.InputSource)}) but relies on a proprietary SAX property
* [@link #SOURCE_OBJECT_LIST_PROPERTY] to define the list of objects to serialize.
* </p>
* <p>
* Configuration of this SAX parser is achieved through the standar
* [@link #setProperty SAX property mechanism]. While specific setter methods require direct
* access to the parser instance, SAX properties support configuration settings to be propagated
* through a chain of [@link org.xml.sax.XMLFilter filters] down to the underlying parser
* object.
* </p>
* <p>
* This mechanism shall be used to configure the
* [@link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized] as well as the
* [@link #CONFIGURED_XSTREAM_PROPERTY XStream facade].
* </p>
* 
* @author Laurent Bihanic
*/
/**
*/
/**
* Sets the value of a property.
* <p>
* The property name is any fully-qualified URI. It is
* possible for an XMLReader to recognize a property name but
* to be unable to set its value.</p>
* <p>
* XMLReaders are not required to recognize setting any
* specific property names, though a core set is provided with
* SAX2.</p>
* <p>
* Some property values may be immutable or mutable only
* in specific contexts, such as before, during, or after
* a parse.</p>
* <p>
* This method is also the standard mechanism for setting
* extended handlers.</p>
* <p>
* <strong>Note</strong>: This implementation only supports two
* (proprietary) properties: [@link #CONFIGURED_XSTREAM_PROPERTY]
* and [@link #SOURCE_OBJECT_LIST_PROPERTY].</p>
* <p>
* @param name  the property name, which is a fully-qualified URI.
* @param value the requested value for the property.
* @throws SAXNotRecognizedException when the XMLReader does not
* recognize the property name.
* @throws SAXNotSupportedException when the XMLReader recognizes
* the property name but cannot set
* the requested value.
* @see #getProperty
*/
/**
* Parses an XML document from a system identifier (URI).
* <p>
* This method is a shortcut for the common case of reading a
* document from a system identifier. It is the exact
* equivalent of the following:</p>
* <blockquote>
* <pre>
*    parse(new InputSource(systemId));
* </pre>
* </blockquote>
* <p>
* If the system identifier is a URL, it must be fully resolved
* by the application before it is passed to the parser.</p>
* <p>
* <strong>Note</strong>: As a custom SAX parser, this class
* ignores the <code>systemId</code> argument of this method
* and relies on the proprietary SAX property
* [@link #SOURCE_OBJECT_LIST_PROPERTY]) to define the list of
* objects to serialize.</p>
* <p>
* @param systemId the system identifier (URI).
* @throws SAXException Any SAX exception, possibly wrapping another exception.
* @see #parse(org.xml.sax.InputSource)
* /

Found in path(s):
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/io/xml/SaxWriter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/basic/BooleanConverter.java
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Found in path(s):
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshaller.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/enums/EnumToStringConverter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/collections/SingletonMapConverter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/core/util/Primitives.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReplacer.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/io/xml/xppdom/XppDomComparator.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/converters/SingleValueConverterWrapper.java
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  jar/com/thoughtworks/xstream/core/JVM.java

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  jar/com/thoughtworks/xstream/io/AbstractWriter.java

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  jar/com/thoughtworks/xstream/io/xml/XppDriver.java

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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/converters/basic/NullConverter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/converters/reflection/ExternalizableConverter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/io/AbstractReader.java
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 * com.thoughtworks.xstream.converters.reflection.
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Found in path(s):
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/core/util/SelfStreamingInstanceChecker.java
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  jar/com/thoughtworks/xstream/core/BaseException.java
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jar/com/thoughtworks/xstream/security/PrimitiveTypePermission.java

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jar/com/thoughtworks/xstream/mapper/LocalConversionMapper.java

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jar/com/thoughtworks/xstream/converters/time/YearMonthConverter.java 
*/opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/converters/time/YearConverter.java 
*/opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/converters/time/OffsetTimeConverter.java 
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  jar/com/thoughtworks/xstream/core/TreeMarshallingStrategy.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/core/ReferenceByIdMarshallingStrategy.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2.jar/com/thoughtworks/xstream/converters/time/PeriodConverter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2.jar/com/thoughtworks/xstream/converters/time/MonthDayConverter.java
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Found in path(s):
/opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/io/xml/xppdom/XppDom.java
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Found in path(s):
/opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/basic/URLConverter.java
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Found in path(s):
/opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/reflection/SunLimitedUnsafeReflectionProvider.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/converters/extended/SqlDateConverter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/converters/extended/SqlTimeConverter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/converters/extended/CurrencyConverter.java
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Found in path(s):
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/converters/ErrorWritingException.java
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jar/com/thoughtworks/xstream/converters/ErrorWriter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/extended/ToAttributedValueConverter.java
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Found in path(s):
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/persistence/XmlSet.java

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Found in path(s):
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/core/AbstractReferenceMarshaller.java

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  jar/com/thoughtworks/xstream/annotations/XStreamInclude.java
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  jar/com/thoughtworks/xstream/core/util/PresortedMap.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/converters/enums/EnumMapConverter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/converters/time/JapaneseEraConverter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/io/xml/DocumentWriter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/io/xml/DocumentReader.java
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jar/com/thoughtworks/xstream/mapper/AnnotationMapper.java
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jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/io/xml/XppDomReader.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/io/path/PathTracker.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/io/xml/DomReader.java
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  jar/com/thoughtworks/xstream/core/util/CompositeClassLoader.java
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  jar/com/thoughtworks/xstream/io/path/Path.java
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  jar/com/thoughtworks/xstream/core/ReferenceByIdUnmarshaller.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/core/ReferenceByIdMarshaller.java
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  jar/com/thoughtworks/xstream/io/xml/AbstractDocumentWriter.java

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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/io/xml/AbstractXppDomDriver.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/io/xml/KXml2DomDriver.java

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  jar/com/thoughtworks/xstream/io/xml/JDom2Writer.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/io/xml/JDom2Reader.java

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Found in path(s):
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/security/RegExpTypePermission.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/security/NoPermission.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/security/ExplicitTypePermission.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/security/WildcardTypePermission.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/security/NullPermission.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/security/ArrayTypePermission.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/converters/javabean/PropertySorter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/converters/javabean/ComparingPropertySorter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/converters/javabean/NativePropertySorter.java
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jar/com/thoughtworks/xstream/core/Caching.java
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Found in path(s):
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/io/xml/BEAStaxDriver.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/core/util/ISO8601JavaTimeConverter.java
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Found in path(s):
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2.jar/com/thoughtworks/xstream/persistence/FilePersistenceStrategy.java
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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: joehni
Build-Jdk: 1.8.0_265
Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
Implementation-Version: 1.4.16
Implementation-Vendor-Id: com.thoughtworks.xstream
Implementation-Vendor: XStream
Bundle-License: BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: XStream Core Sources
Bundle-SymbolicName: xstream.sources
Bundle-Vendor: XStream Sources
Bundle-Version: 1.4.16 Sources
Eclipse-SourceBundle: xstream;version=1.4.16
Specification-Version: 1.4
X-Build-Os: Linux
X-Build-Time: 2021-03-12T23:23:07Z
X-Build-Builder: Maven 3.6.3
X-Compile-Source: 1.4
X-Compile-Target: 1.4

Found in path(s):
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2.jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/converters/basic/URIConverter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/converters/extended/PathConverter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/InitializationException.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/core/util/ISO8601JodaTimeConverter.java
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c.t.x.converters.reflection.SerializationMemberInvoker.
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Found in path(s):
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/core/util/SerializationMembers.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/converters/SingleValueConverter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/converters/basic/AbstractSingleValueConverter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/mapper/XStream11XmlFriendlyMapper.java
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  jar/com/thoughtworks/xstream/converters/ConverterRegistry.java
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  jar/com/thoughtworks/xstream/core/util/OrderRetainingMap.java
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jar/com/thoughtworks/xstream/core/StringCodec.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/core/util/Base64JavaUtilCodec.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java

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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/time/ValueRangeConverter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/time/MinguoDateConverter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/time/ThaiBuddhistDateConverter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/time/JapaneseDateConverter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/time/WeekFieldsConverter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2.jar/com/thoughtworks/xstream/converters/reflection/FieldKeySorter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2.jar/com/thoughtworks/xstream/converters/reflection/ImmutableFieldKeySorter.java

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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2.jar/com/thoughtworks/xstream/converters/reflection/XStream12FieldKeySorter.java

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Found in path(s):
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2.jar/com/thoughtworks/xstream/converters/reflection/FieldUtil15.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2.jar/com/thoughtworks/xstream/converters/reflection/FieldUtil14.java

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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1.4.16-sources-2-
  jar/com/thoughtworks/xstream/converters/ConverterLookup.java
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  jar/com/thoughtworks/xstream/XStreamException.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1.4.16-sources-2-
  jar/com/thoughtworks/xstream/io/xml/MXParserDomDriver.java
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  jar/com/thoughtworks/xstream/io/xml/XomDriver.java
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  jar/com/thoughtworks/xstream/core/util/PrioritizedList.java
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  jar/com/thoughtworks/xstream/io/xml/Dom4JReader.java
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  jar/com/thoughtworks/xstream/io/xml/XppDomDriver.java
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  jar/com/thoughtworks/xstream/converters/time/HijrahDateConverter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/converters/basic/BigDecimalConverter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/converters/basic/BigIntegerConverter.java
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 * /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/annotations/XStreamContainedType.java

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 * /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/annotations/AnnotationReflectionConverter.java

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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/converters/reflection/SelfStreamingInstanceChecker.java
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  jar/com/thoughtworks/xstream/mapper/ImplicitCollectionMapper.java
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  jar/com/thoughtworks/xstream/io/naming/NameCoder.java
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  jar/com/thoughtworks/xstream/io/xml/Xpp3Driver.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/io/xml/KXml2Driver.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/converters/extended/TextAttributeConverter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/io/xml/XomWriter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/io/xml/JDomWriter.java
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jar/com/thoughtworks/xstream/mapper/CGLIBMapper.java
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jar/com/thoughtworks/xstream/converters/reflection/NativeFieldKeySorter.java
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jar/com/thoughtworks/xstream/converters/collections/AbstractCollectionConverter.java
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jar/com/thoughtworks/xstream/converters/extended/UseAttributeForEnumMapper.java
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jar/com/thoughtworks/xstream/io/WriterWrapper.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/persistence/FileStreamStrategy.java
  /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/persistence/StreamStrategy.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2.jar/com/thoughtworks/xstream/io/binary/ReaderDepthState.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/io/naming/NameCoderWrapper.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
  jar/com/thoughtworks/xstream/io/xml/XStream11NameCoder.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
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  jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamReader.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamDriver.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/io/xml/XomReader.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/io/xml/DomWriter.java
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jar/com/thoughtworks/xstream/converters/javabean/JavaBeanConverter.java
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jar/com/thoughtworks/xstream/mapper/AbstractAttributeAliasingMapper.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-
jar/com/thoughtworks/xstream/mapper/SystemAttributeAliasingMapper.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/time/LocalDateConverter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/time/ZonedDateTimeConverter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/time/LocalDateTimeConverter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/time/OffsetDateTimeConverter.java
* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/converters/time/LocalTimeConverter.java
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* /opt/cola/permits/1152420843_1618230497.91/0/xstream-1-4-16-sources-2-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyWriter.java
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1.564 libgsm 1.0.13-11.el7
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If 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
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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.

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

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

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

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

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For 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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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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- `analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java`

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 * Tim Martin
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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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a purpose that is entirely well-defined independent of the
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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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

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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.

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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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"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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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1.jar/org/springframework/transaction/TransactionSuspensionNotSupportedException.java
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#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)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <climits>
#endif
#endif

#ifndef __STLP_CLIMITS
#define __STLP_CLIMITS
#endif

#ifndef __STLP_OUTERMOST_HEADER_ID
#define __STLP_OUTERMOST_HEADER_ID 0x108
#endif
#include <stl/_prolog.h>
#endif
# else
# include _STLP_NATIVE_CPP_C HEADER(climits)
# endif
#endif

#else
# if defined (__BORLANDC__)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <limits.h>
# else
# include _STLP_NATIVE_C HEADER(limits.h)
# endif
#else
# include <limits.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x108)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_CLIMITS */

#include <stlport.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_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <vector>
#else
#include _STLP_NATIVE_HEADER(vector)
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x77)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_VECTOR */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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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)
    #if defined (_STLP_HAS_INCLUDE_NEXT)
        # 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:

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/debug/_debug.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_iterator.h

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 */
#ifndef _STLP_NUMERIC

#include <stl/_prolog.h>

#define _STLP_NUMERIC

#if (_STLP_OUTERMOST_HEADER_ID == 0x49)
    ifndef _STLP_INTERNAL_NUMERIC_H
        include <stl/numeric.h>
    endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x49) || defined (_STLP_IMPORT_VENDOR_STD)
    if defined (_STLP_HAS_INCLUDE_NEXT)
        include_next <numeric>
    else
        include _STLP_NATIVE_HEADER(numeric)
    endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x49)
    include <stl/_epilog.h>
    undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_NUMERIC */

// Local Variables:
// mode:C++
// End:

// 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/stl/stl/_bitset.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/stl/_bitset.h
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_rope.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/char_traits.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_stdexcept_base.h
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/functional
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_fstream_base.c

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*/
#ifndef _STLP_STREAMBUF
#endif

#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_IOSSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/_ioserr.h>
#endif

ifndef _STLP_INTERNAL_STREAMBUF
#include <stl/_streambuf.h>
endif
endif

ifndef _STLP_VLARED_STREAMBUF
include <streambuf>
else
include _STLP_NATIVE_HEADER(streambuf)
endif
endif

if (_STLP_OUTERMOST_HEADER_ID == 0x1066)
include <epilog.h>
ifndef _STLP_OUTERMOST_HEADER_ID
endif /* _STLP_STREAMBUF */
endif

// Local Variables:
// mode:C++
// End:
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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

#endif /* _STLP_STRING */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* [http://complement.sourceforge.net]
* to make it close to JTC1/SC22/WG21 C++ 0x working draft
* [http://www.open-std.org/Jtc1/sc22/wg21/docs/papers/2008/n2521.pdf]
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 послужитель

ThrowCompare.h

Interface for the ThrowCompare class

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test_slist.cpp

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TestClass.cpp

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 */

#ifndef _STLP_ITERATOR
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x38
#include <stl/_prolog.h>
define _STLP_ITERATOR
#endif

if (_STLP_OUTERMOST_HEADER_ID == 0x38)
ifndef _STLP_INTERNAL_ITERATOR_H
#include <stl/_iterator.h>
define _STLP_INTERNAL_ITERATOR_H
endif
#endif

ifndef _STLP_INTERNAL_STREAM_ITERATOR_H
#include <stl/_stream_iterator.h>
define _STLP_INTERNAL_STREAM_ITERATOR_H
endif
#endif

if (_STLP_OUTERMOST_HEADER_ID != 0x38) || defined (_STLP_IMPORT_VENDOR_STD)
ifndef _STLP_HAS_INCLUDE_NEXT
#include_next <iterator>
define _STLP_HAS_INCLUDE_NEXT
endif
#endif
# 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:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/codecvt.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/_messages_facets.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/_stdio_file.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/ostream.cpp
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/_num_get.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/iostream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/istream.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/ios.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/iostream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/ios.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/ostream.hpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/strstream.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/num_put.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/time_facets.cpp

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_tools.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_vector.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_list.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_slist.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_list.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_slist.h

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iterator.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iterator_base.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_function.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_function_base.h

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*/

#ifndef _STLP_CSTDIO
#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x15
# include <stl/_prolog.h>
#else (_STLP_OUTERMOST_HEADER_ID == 0x15) && !defined (_STLP_DONT_POP_HEADER_ID)
# define _STLP_DONT_POP_HEADER_ID
# define _STLP_CSTDIO
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x15) && !defined (_STLP_DONT_POP_HEADER_ID)
# ifndef _STLP_INTERNAL_CSTDIO
#  include <stl/_cstdio.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x15) || defined (_STLP_DONT_POP_HEADER_ID) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <cstdio>
#  else
#    include _STLP_NATIVE_CPP_C_HEADER(cstdio)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x15)
#  if !defined (_STLP_DONT_POP_HEADER_ID)
#    include <stl/_epilog.h>
#    undef _STLP_OUTERMOST_HEADER_ID
#  else
#    undef _STLP_DONT_POP_HEADER_ID
#  endif
#endif

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* /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
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x22)
#ifndef _STLP_INTERNAL_DEQUE_H
#include <stl/_deque.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x22) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <deque>
#  else
#    include _STLP_NATIVE_HEADER(deque)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x22)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_DEQUE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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#include <stl/_prolog.h>
#define _STLP_INTERNAL_ISTREAM
#endif
#endif /* _STLP_ISTREAM */

#include <stl/_ioserr.h>
#endif /* _STLP_ISTREAM */
#endif /* _STLP_OUTERMOST_HEADER_ID */
#endif /* _STLP_NO_IOSTREAMS */
#endif /* _STLP_IMPORT_VENDOR_STD */
#endif /* _STLP_OUTERMOST_HEADER_ID == 0x1036 */
#endif /* _STLP_INTERNAL_ISTREAM */
#endif /* _STLP_OUTERMOST_HEADER_ID != 0x1036 */
#endif /* _STLP_HAS_INCLUDE_NEXT */
#endif /* _STLP_OUTERMOST_HEADER_ID == 0x1036 */
#endif /* _STLP_OUTERMOST_HEADER_ID != 0x1036 */

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// Local Variables:
// mode:C++
// End:

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test_hash_map.cpp

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#ifndef _STLP_CSETJMP

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x111
#define _STLP_CSETJMP
#include <stl/_prolog.h>
#endif

#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x111)
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x111) || defined (_STLP_IMPORT_VENDOR_STD)
#endif

#endif

#ifndef _STLP_INTERNAL_CSETJMP
#include <stl/csetjmp.h>
#endif

#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x111) || defined (_STLP_IMPORT_VENDOR_STD)
#endif

else

#include _STLP_NATIVE_CPP_C_HEADER(csetjmp)
#endif

#endif

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 */

#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_next <cwctype>
#else

#endif /* _STLP_CSETJMP */

// Local Variables:
// mode:C++
// End:

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 */
# 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:

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 strstrjmp|random_number.cpp

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 strstrjmp|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

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:

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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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* */

#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

#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:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/test_main.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/cppunit_mini.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/cppunit_proxy.h

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* */

#ifndef _STLP_QUEUE

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x53
#include <stl/_prolog.h>
#define _STLP_QUEUE
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x53)
#ifndef _STLP_INTERNAL_QUEUE_H
#include <stl/_queue.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x53) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <queue>
#else
#include _STLP_NATIVE_HEADER(queue)
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x53)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_QUEUE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* Modified CRP 7/10/00 for improved conformance / efficiency on insert_unique /
* insert_equal with valid hint -- efficiency is improved all around, and it is
* should now be standard conforming for complexity on insert point immediately
* after hint (amortized constant time).
* /

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_tree.c
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_numeric.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_valarray.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_threads.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_deque.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_vector.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_tempbuf.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_slist_base.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_list.c

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test_set.cpp
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 */

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/_string_fwd.h
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 *
 */

#ifndef _STLP_CISO646
#define _STLP_CISO646

#ifndef _STLP_OUTERMOST_HEADER_ID
  #define _STLP_OUTERMOST_HEADER_ID 0x107
  # include <stl/_prolog.h>
#endif
#endif /* _STLP_CISO646 */

#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
  # endif
  # else
  #   include <iso646.h>
  # endif /* _STLP_USE_NEW_C_HEADERS */
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x107 )
  # include <stl/_epilog.h>
  # undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CISO646 */

// Local Variables:
// mode:C++
// End:

Found in path(s):
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ciso646
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 */

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x103
#include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x103) && ! defined (_STLP_DONT_POP_HEADER_ID)
#define _STLP_DONT_POP_HEADER_ID
#endif
#if !defined (_STLP_WCE_EVC3)
#if defined (_STLP_USE_NEW_C_HEADERS)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cassert>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cassert)
#endif
#else
#include <assert.h>
#endif
#else
#include _STLP_NATIVE_CPP_C_HEADER(cassert)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x103 )
#if !defined (_STLP_DONT_POP_HEADER_ID)
#include <stl/_epilog.h>
#else
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif

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#ifndef _STLP_EXCEPTION

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*/

// This header exists solely for portability. Normally it just includes
// the native header <exception>.

 ifndef _STLP_EXCEPTION

 #if !_defined (_STLP_OUTERMOST_HEADER_ID)
 # define _STLP_OUTERMOST_HEADER_ID 0x423
 # include <stl/_prolog.h>
 #elif (_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) ||
     _defined (_STLP_IMPORT_VENDOR_STD)

 #ifndef _STLP_INTERNAL_EXCEPTION
 # include <stl/_exception.h>
 # endif
 #endif

 endif

#endif

// Local Variables:
// mode:C++
// End:

Found in path(s):
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*/
/* If we are here it means that we are in an include called
* from the native lib which means that we can simply forward this
* call to the native exception header:
*/
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <exception>
#else
#if defined (__DMC__) && (_STLP_OUTERMOST_HEADER_ID == 0x874)
// Workaround to DMC hardcoded typeinfo.h inclusion.
#include <../include/exception>
#else
#include _STLP_NATIVE_CPP_RUNTIME_HEADER(exception)
#endif
#endif
#endif /* _STLP_EXCEPTION */

#if (_STLP_OUTERMOST_HEADER_ID == 0x423)
#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_EXCEPTION */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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******************************************************
* README file for STLport 5.0
* ******************************************************

This directory contains the STLport-5.0 release.

What's inside :

README       - this file
INSTALL      - installation instructions
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

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test_bit_vector.cpp

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 * */

#ifndef _STLP_SLIST
#define _STLP_SLIST

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x58
#include <stl/_prolog.h>
#endif

#ifdef _STLP_PRAGMA_ONCE
#pragma once
#endif

#if defined (_STLP_NO_EXTENSIONS)
/* Comment following if you want to use the slist container even if you ask for
 * no extension.
 */
#else
# error The slist class is an STLport extension.
#endif

#ifndef _STLP_INTERNAL_SLIST_H
#include <stl/_slist.h>
#endif

#if defined (_STLP_IMPORT_VENDOR_STD)
//This is not a Standard header, it might failed for most of
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*
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iostream_string.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_unordered_set.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_workaround.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_deque.h
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 * 
 */

// This header defines classes basic_stringbuf, basic_istringstream,
// basic_ostringstream, and basic_stringstream. These classes
// represent streambsuf and streams whose sources or destinations are
// C++ strings.

#ifndef _STLP_SSTREAM

#endif

#ifndef _STLP_OUTERMOST_HEADER_ID

#define _STLP_OUTERMOST_HEADER_ID
#include <stl/_prolog.h>
#define _STLP_SSTREAM

#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
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 */

#ifndef _STLP_ALGORITHM
#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 /* _STLP_ALGORITHM */

// 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/algorithm
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test_hash_resize.h

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_hash_resize.h
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/*******************************************************************************/

random_number.h

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*/

#ifndef _STLP_CSIGNAL

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x112
#define _STLP_CSIGNAL
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x112)
#ifndef _STLP_INTERNAL_CSIGNAL
#include <stl/_csignal.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x112) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <csignal>
#else
#include _STLP_NATIVE_CPP_C_HEADER(csignal)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x112)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CSIGNAL */
// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/csignal
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  test_rope.cpp

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/************************************************************

  test_push_back.h

  Interface for the test_push_back class

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/test_hash_set.cpp

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******************************************************************************

Quick start.

GNU Make (Linux, OpenBSD, FreeBSD, CygWin, etc.), with gcc:

    make -f gcc.mak depend
    make -f gcc.mak install

GNU Make (SunOS), with SunPro CC:

    make -f CC.mak depend
    make -f CC.mak install

Microsoft NMAKE (MS Windows), with VC6:

    nmake /fmsvc.mak install

Make system goals.

- all source files declared in one place (for all platforms and
  compilers); the same is for base library (application) name and
  version.
- derive object filenames from source filenames in make system
- source files may be situated in few catalogs
- avoid information duplication, if possible
- support cross-compilation
Make targets.

release-static

build STLport as static library

dbg-static

build STLport as static library (with debug information)

stldbg-static

build STLport as static library (STLP_DEBUG mode, with debug information)

release-shared

build STLport as dynamic (shared) library

dbg-shared

STLport as dynamic (shared) library (with debug information)

stldbg-shared

build STLport as dynamic (shared) library (STLP_DEBUG mode, with debug information)

all (default)

cumulative target for release,dbg,stldbg -shared on Unix-like platforms and plus release,dbg,stldbg -static on Windows.

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
#include <stl/_prolog.h>
#define _STLP_IOS
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1032) &&
!defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/_ioserr.h>

#ifndef _STLP_INTERNAL_IOS_H
#include <stl/_ios.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1032) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <ios>
# else
#   include _STLP_NATIVE_HEADER(ios)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1032)
#   include <stl/_epilog.h>
#   undef _STLP_OUTERMOST_HEADER_ID
#endif /* _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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ordialivar://***********************************************************************
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.

***********************************************************************

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/SortClass.h
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 *
 */

#ifndef _STLP_CTIME
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x118
#include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x118) && ! defined (_STLP_DONT_POP_HEADER_ID)
#define _STLP_DONT_POP_HEADER_ID
#define _STLP_CTIME
#endif
#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
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 */

#ifndef _STLP_IOSFWD
#endif

#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>
#endif

#ifndef _STLP_INTERNAL_IOSFWD
#include <stl/_iosfwd.h>
#endif

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#if (_STLP_OUTERMOST_HEADER_ID != 0x1034) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <iosfwd>
#  else
#    include _STLP_NATIVE_HEADER(iosfwd)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1034)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_IOSFWD */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iosfwd
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/test_list.cpp

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*/

#ifndef _STLP_CFLOAT
#define _STLP_CFLOAT

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x106
#include <stl/_prolog.h>
#endif

// Borland defines some implementation constants in std:: namespace,
// we do not want to import them.
#if defined (_STLP_USE_NEW_C_HEADERS) && !defined (__BORLANDC__)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cfloat>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cfloat)
#endif
#else
#include <float.h>
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x106 )
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CFLOAT */

// Local Variables:
// mode:C++
// End:

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SUMMARY: Configuration #defines for STL EH test suite

*****************************************************************

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version.

Found in path(s):
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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
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x76
#include <stl/_prolog.h>
#define _STLP_VALARRAY
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// Local Variables:
// mode:C++
// End:

Found in path(s):
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Tests.h

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SUMMARY: Declarations of all of the tests in the exception 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/Tests.h

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 */

#ifndef _STLP_STDEXCEPT

#if !_defined (_STLP_OUTERMOST_HEADER_ID)
    # define _STLP_OUTERMOST_HEADER_ID 0x63
    # include <stl/_prolog.h>
#else (_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) || !_defined (_STLP_IMPORT_VENDOR_STD)
    #if !_defined (_STLP_HAS_INCLUDE_NEXT)
        #include <stdexcept>
    #else
        #include _STLP_NATIVE_HEADER(stdexcept)
    #endif
#else
    #endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x63)
    ifndef _STLP_INTERNAL_STDEXCEPT
        # include <stl/stdexcept.h>
    #endif
#endif

#endif

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#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

#endif /* _STLP_STDEXCEPT */

// 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/stdexcept

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 */

#ifndef _STLP_STACK
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x60

#endif /* _STLP_OUTERMOST_HEADER_ID */
#endif /* _STLP_STACK */
# include <stl/_prolog.h>
# define _STLP_STACK
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x60)
# ifdef _STLP_INTERNAL_STACK_H
# include <stl/_stack.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x60) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <stack>
# else
# include _STLP_NATIVE_HEADER(stack)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x60)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_STACK */

// 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/stack
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/ /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/c_locale_win32/c_wlocale_win32.c
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/
#ifndef _STLP_BITMAP

// 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_BITSET
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x2)
# ifndef _STLP_INTERNAL_BITSET
# include <stl/_bitset.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x2) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <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):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/bitset
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 */

#ifndef _STLP_IOMANIP
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1030
#include <stl/_prolog.h>
#define _STLP_IOMANIP
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1030) && !defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD)
#include <stl/_ioserr.h>
#endif

#ifndef _STLP_INTERNAL_IOMANIP
#include <stl/iomanip.h>
#endif
#endif

#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
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#ifndef _STLP_IOMANIP */

// Local Variables:
// mode:C++
// End:

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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

#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x447)
 # if defined (_STLP_HAS_INCLUDE_NEXT)
 # include_next <new>
 # else
 # include _STLP_NATIVE_CPP_RUNTIME_HEADER(new)
 #endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x447)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#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

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1025
#include <stl/_prolog.h>
#define _STLP_FSTREAM
#endif

#ifdef (__DMC__) && defined (_DLL)
#define _STLP_CLASS_IMPORT_DECLSPEC __declspec(dllimport)
#endif

#endif

// 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

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1025
#include <stl/_prolog.h>
#define _STLP_FSTREAM
#endif

#endif

#ifndef _STLP_INTERNAL_FSTREAM_H
# include <stl/_fstream.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1025) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <fstream>
#else
# include _STLP_NATIVE_HEADER(fstream)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1025)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
# if defined (__DMC__) && defined (_DLL)
# define _STLP_CLASS_IMPORT_DECLS
#endif
#endif /* _STLP_FSTREAM */

// Local Variables:
// mode:C++
// End:

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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

#ifdef _STLP_PRAGMA_ONCE
#pragma once
#endif

#include <stl/_pthread_alloc.h>

#ifndef _STLP_OUTERMOST_HEADER_ID
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_PTHREAD_ALLOC */

// 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/pthread_alloc
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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
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/clean.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/freebsd/sys.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/dmc.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/sunos/targetsys.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/rules-install.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/gcc.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/cc.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/darwin/targetsys.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/extern.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/CC.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/dmc.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/gcc.mak
5.2.1/build/Makefiles/gmake/unix/lib.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/subdirs.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/app/dmc.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/linux/targetsys.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/linux/sys.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/lib/rules-a.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/bcc.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/vc6.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/app/rules.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/darwin/sys.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/sunos/sys.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-
5.2.1/build/Makefiles/gmake/CC.mak
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*  */  
// version.

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 */

#ifndef _STLP_CERRNO
#define _STLP_CERRNO

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x105
#include <stl/_prolog.h>
#endif

#ifndef _STLP_WCE
#if defined (_STLP_USE_NEW_C_HEADERS)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cerrno>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cerrno)
#endif
#else
#include <errno.h>
#endif
#endif
#endif

#ifndef errno /* errno is not a macro */
#if defined (_STLP_IMPORT_VENDOR_CSTD)
#if !defined (__IBMCPP__) && !defined (__hpux) && !defined (__MWERKS__) && !defined (_STLP_WCE)
_STLP_BEGIN_NAMESPACE
using _STLP_VENDOR_CSTD::errno;
#endif
#endif

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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/cerrno
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=======================================================================================================
STLport README for Microsoft Visual C++ compilers.
=======================================================================================================

by: Francois Dumont, dums@stlport.com, last edited 08/02/2005
Introduction

This document describes how STLport can be compiled and used with Microsoft Visual C++ 6 SP5. It can also be used for the MSVC++ family.

For any further comments or questions visit STLport mailing lists
http://stlport.sourceforge.net/Maillists.shtml or forums
https://sourceforge.net/forum/?group_id=146814

Prerequisites

To build and use STLport you will need following tools and libraries:
- Microsoft Visual C++ 6.0 with at least Service Pack 5 or any higher version.

Configuring STLport

In a console window go to the STLport build/lib folder. Run

configure --help

This command will present you the different available build options. Just follow the instructions to set STLport configuration according your needs. The only mandatory configuration is to declare what is the compiler you are going to use, for MSVC 6 it is:

configure -c msvc6

Building STLport

This is a step by step description of the actions to take in order to have the STLport library built:

1. Open a console window. You can get it executing cmd or command depending on your Windows OS.

2. Go to MSVC++ Bin directory with a default MSVC6 install it is
cd "C:\Program Files\Microsoft Visual Studio\VC98\Bin"

3. Run the vcvars32.bat script. This sets the environment variables required to have the MSVC++ compiler run during the build process. The most important one is the PATH variable so that you can call the cl.exe command which is the MSVC++ command line compiler. [You may omit this step, if you chose 'Install paths to access command-line tools' during Microsoft Visual Studio installation procedure.]
4. Go to the STLport build/lib folder:
   cd C:\STLport\build\lib

5. Run the following command:
   nmake /fmsvc.mak install

   nmake is the make utility from Microsoft. /f is an nmake option
telling it which make file script to use. You have of course to grant the
closer make file to your effective compiler, msvc.mak in our case.

Once the command returns, you will have all the necessary libraries within
the STLport lib folder. For a description of the generated libraries check the README
file within the src folder.

===============
Testing STLport
===============
You can use the unit tests to verify STLport behaves correctly. Change into
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_VERBOSE_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
stdl: debug build with _STLP_DEBUG (STL safe) mode
_x: Build of STLport as a dll but statically link to the native runtime.
__static : build of a static library
__statix : build of a static library link dynamically to the native runtime.

Examples:

stlport_static.5.0.lib - static release version, Version 5.0.0
stlportd.5.0.lib - dll debug version, Version 5.0.0

When using STLport together with MFC, be sure to include the MFC headers first, then include STLport headers, e.g. in your Stdafx.h. This way STLport correctly recognizes MFC usage. You also can define the macro _STLP_USE_MFC, either in your project settings or in stlport/stl/config/user_config.h.

In order to enhance debugging with STLport you can optionally add the content of the etc/autoexp.dat file in the autoexp.dat file coming with your Visual Studio install.

Now you should be ready to use STLport.

============
Known issues
============

1. InterlockedIncrement

If you experiment trouble with the InterlockedIncrement Win32 API function like the following message:

C:\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 uncoment _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
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:

```c
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.

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/doc/README.msvc
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*/

#ifndef _STLP_LIMITS

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x39
#include <stl/_prolog.h>
define _STLP_LIMITS
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x39)
ifndef _STLP_INTERNAL_LIMITS
#include <stl/_limits.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x39) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <limits>
#else
#include _STLP_NATIVE_HEADER(limits)
#endif
#endif
#endif /* _STLP_LIMITS */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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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.

#ifdef _STLP_STRSTREAM

#ifdef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1070
#define _STLP_STRSTREAM
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1070) &&
!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#define _STLP_STRSTREAM
#endif
#if define _STLP_OUTERMOST_HEADER_ID
#endif
#endif

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# ifndef _STLP_INTERNAL_STRSTREAM
#  include <stl/_strstream.h>
# endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1070) || defined (_STLP_IMPORT_VENDOR_STD)
/* Even if deprecated strstream header is still part of the Standard. Remove
 * _STLP_IMPORT_VENDOR_STD check if the native compiler library do not grant
 * it anymore. */
 # if defined (_STLP_HAS_INCLUDE_NEXT)
 #  include_next <strstream>
 # else
 #  include _STLP_NATIVE_HEADER(strstream)
 # endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1070)
 # include <stl/_epilog.h>
 # undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_STRSTREAM */

// 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/strstream
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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/_clocale.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x109) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <clocale>
#else
#include _STLP_NATIVE_CPP_C_HEADER(clocale)
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x109)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CLOCALE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* /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
// Local Variables:
// mode:C++
// End:

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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
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x10)
// This header declares the template class complex, as described in
// in the C++ Standard. Single-precision complex numbers
// are complex<float>, double-precision are complex<double>, and
// quad precision are complex<long double>.

// Note that the template class complex is declared within namespace
// std, as called for by the draft C++ standard
# ifndef _STLP_INTERNAL_COMPLEX
#  include <stl/_complex.h>
# endif

#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

#if (_STLP_OUTERMOST_HEADER_ID == 0x10)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_COMPLEX */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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 */

#ifndef _STLP_CSTDARG

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x113
# define _STLP_CSTDARG

#endif

#endif

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# 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 /* _STLP_CSTDARG */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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 */
/*
#ifndef _STLP_OSTREAM
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1050
#include <stl/_prolog.h>
define _STLP_OSTREAM
#endif

if (_STLP_OUTERMOST_HEADER_ID == 0x1050) && \(!defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/_ioserr.h>
#endif
#ifndef _STLP_INTERNAL_OSTREAM
#include <stl/_ostream.h>
#endif
#endif
#ifndef _STLP_OSTREAM */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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#ifndef _STLP_CMATH

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x110
#include <stl/_prolog.h>
#endif
#elif (_STLP_OUTERMOST_HEADER_ID == 0x110) && !defined (_STLP_DONT_POP_HEADER_ID)
#define _STLP_DONT_POP_HEADER_ID
#define _STLP_CMATH
#endif

#if defined _STLP_CMATH

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x110
#define _STLP_CMATH 0
#endif
#endif

#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x110) && !defined (_STLP_DONT_POP_HEADER_ID)
#define _STLP_DONT_POP_HEADER_ID
#define _STLP_CMATH
#endif

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#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x110) && !defined (_STLP_DONT_POP_HEADER_ID)
    ifndef _STLP_INTERNAL_CMATH
      include <stl/_cmath.h>
    endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x110) || defined (_STLP_DONT_POP_HEADER_ID) || defined (_STLP_IMPORT_VENDOR_STD)
  if defined (_STLP_HAS_INCLUDE_NEXT)
    include_next <cmath>
  else
    include _STLP_NATIVE_CPP_C_HEADER(cmath)
  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x110)
  if !defined (_STLP_DONT_POP_HEADER_ID)
    include <stl/_epilog.h>
    undef _STLP_OUTERMOST_HEADER_ID
  else
    undef _STLP_DONT_POP_HEADER_ID
  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x110)
  if !defined (_STLP_DONT_POP_HEADER_ID)
    include <stl/_epilog.h>
  undef _STLP_OUTERMOST_HEADER_ID
  else
    undef _STLP_DONT_POP_HEADER_ID
  endif
#endif

#endif /* _STLP_CMATH */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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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 /* _STLP_CSTDDEF */

// Local Variables:
// mode:C++
// End:

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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
#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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 */

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/_threads.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/_auto_ptr.h
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/_string_io.h
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*
*/

#ifndef _STLP_LIST
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x40
#include <stl/_prolog.h>
#define _STLP_LIST
#endif
#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 <stl/_epilog.h>
#endif
#endif
#endif

#else (_STLP_OUTERMOST_HEADER_ID == 0x40)
#endif
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#ifndef _STLP_LIST */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* */

#ifndef _STLP_TYPEINFO
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x473
#include <stl/_prolog.h>
#else (_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>
#define _STLP_TYPEINFO
#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>
  # endif
  # undef _STLP_OUTERMOST_HEADER_ID
# else
  # undef _STLP_DONT_POP_HEADER_ID
# endif
#endif

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* */

#ifndef _STLP_CSTDLIB
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x116
#define _STLP_CSTDLIB
#include <stl/_prolog.h>
#endif
#if 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)
#ifndef _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):
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/concept_checks.h
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*/

#ifdef _STLP_MAP

#ifdef _STLP_OUTERMOST_HEADER_ID
    # define _STLP_OUTERMOST_HEADER_ID 0x43
    # include <stl/_prolog.h>
    # define _STLP_MAP
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x43)
    # ifndef _STLP_INTERNAL_MAP_H
        # include <stl/_map.h>
    # endif
#endif

#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

#endif /* _STLP_MAP */
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1.615 javascript-state-machine 2.2.0

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1.616 mesa 18.0.5 3.el7
1.616.1 Available under license:
/* Legal characters in GLSL are:

*  * Identifier characters:
  *
  *      Letters a-z
  *      Letters A-Z
  *      Underscore
  *      Numbers 0-9
  *
*  * Punctuation:
  *
  *      Period, plus, dash, slash, asterisk, percent, angled brackets,
  *      square brackets, parentheses, braces, caret, vertical bar,
  *      ampersand, tilde, equals, exclamation point, colon, semicolon,
  *      comma, and question mark
*  
* Special:  
*  
* Number sign (as used in preprocessor)  
*  
* Backslash just before newline as line continuation  
*  
* White space:  
*  
* Space, horizontal tab, vertical tab, form feed, carriage-return,  
*     and line-feed.  
*  
* [GLSL Language Specification 4.30.6, section 3.1]  
*  
* In this file, we test each of these in turn as follows:  
*  
* Identifier characters: All pass through unchanged  
*  
* Punctuation: All pass through unchanged  
*  
* Special: Empty directive replaced with blank line  
*     Line continuation merges two lines, then a blank line  
*  
* Whitespace: 4 horizontal space characters each replaced with space  
*     2 newline characters each replaced with a newline  
*  
* /  
  
abcdefghijklmnopqrstuvwxyz  
ABCDEFGHIJKLMNOPQRSTUVWXYZ  

-  
0123456789  
-  
+  
-  
/  
*  
%  
<  
>  
[  
]  
(  
)  
{  
}  
^  
|  
&  
~  
=  
!
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#    Ian Romanick <idr@us.ibm.com>

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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
>
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
>
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.
The license says:

* 2. Redistributions in binary form must reproduce the following statement:

*  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
*    Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

*  Only for use in the Mesa project, this point 2 is filled by naming the
*    technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa
project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's
  MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from
Fedora's copy of Mesa. However, looking at the license on your SMAA
code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html lang="en">
<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8">
<title>License / Copyright Information</title>
<link rel="stylesheet" type="text/css" href="mesa.css">
</head>
<body>

<div class="header">
<h1>The Mesa 3D Graphics Library</h1>
</div>
Mesa is a 3-D graphics library with an API which is very similar to that of OpenGL.* To the extent that Mesa utilizes the OpenGL command syntax or state machine, it is being used with authorization from Silicon Graphics, Inc. (SGI). However, the author does not possess an OpenGL license from SGI, and makes no claim that Mesa is in any way a compatible replacement for OpenGL or associated with SGI. Those who want a licensed implementation of OpenGL should contact a licensed vendor.

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```
<table>
<thead>
<tr>
<th>Component</th>
<th>Location</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Mesa code</td>
<td>src/mesa/</td>
<td>MIT</td>
</tr>
<tr>
<td>Device drivers</td>
<td>src/mesa/drivers/*</td>
<td>MIT, generally</td>
</tr>
<tr>
<td>Gallium code</td>
<td>src/gallium/</td>
<td>MIT</td>
</tr>
<tr>
<td>Ext headers</td>
<td>include/GL/glext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>include/GL/glxext.h</td>
<td></td>
</tr>
<tr>
<td>GLX client code</td>
<td>src/glx/</td>
<td>SGI Free Software License B</td>
</tr>
</tbody>
</table>
```
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---

**1.617 slf4j-log4j 1.7.2**

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**1.618 commons-beanutils-core 1.8.3**

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1.619 jackson-dataformat-yaml 2.9.8

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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
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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 ESMTP id C8C73794D
for <mps@bridge.intra>; Wed,  1 Mar 2006 20:30:38 +0100 (CET)
X-Flags: 0000
you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
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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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1.622 juel 2.1.3

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Found in path(s):
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/misc/TypeConverter.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/java/el/FunctionMapper.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/java/el/MapELResolver.java
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* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/tree/Bindings.java
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* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/java/el/PropertyNotWritableException.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/de/odysseus/el/misc/TypeConverterImpl.java
* /opt/cola/permits/1135953562_1613641224.88/0/juel-2-1-3-sources-1-jar/java/el/ELResolver.java
1.623 activemq-openwire-legacy 5.8.0

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<th>Who</th>
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<td>19apr2000</td>
<td>dl</td>
<td>use barrierLock</td>
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<tr>
<td>12jan2001</td>
<td>dl</td>
<td>public release</td>
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<tr>
<td>17nov2001</td>
<td>dl</td>
<td>Minor tunings</td>
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<td>BarrierLock can now be serialized.</td>
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<tr>
<td>09dec2002</td>
<td>dl</td>
<td>Fix interference checks.</td>
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* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1.6-1-sources-4-
jar/org/dom4j/tree/ConcurrentReaderHashMap.java

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Found in path(s):
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/InvalidXPathException.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/ProcessingInstruction.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/swing/LeafTreeNode.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/XPath.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/IndexedElement.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultAttribute.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Branch.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/swing/XMLTableColumnDefinition.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/AttributeHelper.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/NodeComparator.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/SingleIterator.java
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* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMNamespace.java
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* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/NonLazyElement.java
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http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

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

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

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

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

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

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

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

*donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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

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

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

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

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

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

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

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

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

Others: Transfer to one of these accounts if possible:

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

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

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

vim:tw=78:ts=8:ft=help:norl:
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Source/JavaScriptCore/inspector/InjectedScriptManager.h
Source/JavaScriptCore/inspector/InjectedScriptModule.cpp
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Source/WebKit2/UIProcess/Network/CustomProtocols/soup/*
Source/WebKit2/UIProcess/PageViewportControllerClient.h
Source/WebKit2/UIProcess/gtk/WebPopupMenuProxyGtk.h
Source/WebKit2/UIProcess/soup/*
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1.643 pcre 8.11

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1.645 high-scale-lib 1.0.6
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1.647 commons-pool 1.5.4

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1.648 tomcat-api 8.0.43

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<li>Atlassian Software Systems donation of Confluence and JIRA licences.</li>
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<li>J&ouml;rn von Kattch&uuml;e &lt;J.Kattchee&#064;seeburger.de&gt; - patch to SMIMEGenerator for preventing class exceptions with BodyParts containing Multipart objects.</li>
<li>Matteo Artuso &lt;matartuso@064;libero.it&gt; - picking up the possible overread in ASN1InputStream.</li>
<li>Julian Morrison &lt;julian&#064;extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.</li>
<li>Elmar Sonnenschein &lt;esos@esomail.de&gt; - fix to long conversion in clean room SecureRandom.</li>
<li>Bryan Lovquist &lt;bkl@064;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>
<li>Artem Portnoy &lt;Artem_Portnoy@064;ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>
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<li>Johan Seland &lt;johans@064;netfonds.no&gt; - general toString for BigInteger class.</li>
<li>Johannes Nicolai &lt;johannes.nicolai@064;novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.</li>
<li>Marc Doberva &lt;marc.doberva@064;ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.</li>
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<li>Kaiser Yang &lt;kaiseryang@064;yahoo.com&gt; - Finding BigInteger loop problem in prime generation.</li>
<li>Jiri Urbanec &lt;jiri.urbanec@064;logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().</li>
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<li>Ralf Hauser &lt;ralfhauser@064;gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator.</li>
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<li>Mariusz Bandola &lt;mariusz.bandola@064;cryptotech.com.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.</li>
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<li>Ian Haywood &lt;ian@064;haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.</li>
<li>Jonathan Edwards &lt;s34gull@064;mac.com&gt; - initial support for reading multiple rings from a PGP key file.</li>
<li>Andrew Thornton &lt;andrew@064;caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.</li>
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<li>Perez Paz Luis Alberto <laperez@064banxico.org.mx> - patch to use of BitString in X.500 name.</li>

<li>James Wright <James_Wright@064harte-hanks.com> - patches for dealing with "odd" ArmoredInputStreams.</li>

<li>Jim Ford <jim@064muirford.com> - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>

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<li>Joseph Miller <joseph@064digiweb.net.nz> - addition of ZeroBytePadding.</li>

<li>Lars <xyz@064sagemdenmark.dk> - patch to explicit padded mode for CBC block cipher MAC.</li>

<li>Jeroen van Vianen <jeroen@064vanvianen.nl> - the Signed and Encrypted mail example.</li>

<li>Jun Sun <JSun@064diversinet.com> - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>

<li>Petru Dukem <spdukem@064email.cz> - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>

<li>Filipe Silva <filipe.silva@064wedoconsulting.com> - patch to fix overead issue in BCPGInputStream.</li>

<li>Alpesh Parmar <alps@064linuxmail.org> - patch for class cast problem in PGPPublicKey.getSignatures().</li>

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<li>Miles Whiteley <Miles.Whiteley@064savvis.net> - "223" fix for BCPGInputStream new packets.</li>

<li>Albert Moliner <alomin@064evintia.com> - initial TSP implementation.</li>

<li>Carlos Lozano <carlos@064evintia.com> - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>

<li>Javier Delgadillo <javi@064javi.codewarp.org> - initial Mozilla PublicKeyAndChallenge classes.
<li>Joni Hahkala <joni.hahkala&#064cern.ch> - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the <a href="http://www.eu-egee.org">EGEE project</a> for making the work available.</li>
<li>Rolf Schillinger <rolf&#064sir-wum.de> - initial implementation of Attribute Certificate generation.</li>
<li>Sergey Bahtin <Sergey_Bahtin&#064yahoo.com> - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.</li>
<li>Franck Leroy <Franck.Leroy&#064keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>
<li>Atsuhiko Yamanaka <ymnk&#064jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>
<li>Nickolay Bolshakov <tyrex&#064rekssoft.ru> - patch for class cast exception in AuthorityInformationAccess class.</li>
<li>Soren Hilmer <soren.hilmer&#064tietoenator.com> - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>
<li>Steve Mitchell <mitchell&#064intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP. Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</li>
<li>Dirk Eisner <D.Eisner&#064seeburger.de> - initial implementation of ISO 78164-4 padding.</li>
<li>Julien Pasquier <julienpasquier&#064free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
<li>Mateo <matartuso&#064libero.it> - sequence patch to ASN1Dump.</li>
<li>Andrew Paterson <andrew.paterson&#064burnsecs.com> - patches to PGP tools, isRevoked method on PGPPublicKey.</li>
<li>Vladimir Molotkov <vladimir.n.molotkov&#064intel.com> - extensive provider exception handling compliance testing.</li>
<li>Florin Kollan <adlocflo&#064web.de> - fix to ElGamalKeyParameters equality testing.</li>
<li>Pavel Vassiliev <paulvas&#064gmail.com> - Initial GOST28147Mac implementation.</li>
<li>Tom Pesman <tom&#064tnux.net> - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.</li>
<li>Lukasz Kowalczyk <lukasz.b.kowalczyk&#064gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>
<li>Arndt Hasch <Arndt.Hasch&#064maxence.de> - additional fix for partial reading with new style PGP packets.</li>
<li>Fix Bernd (KCDP 11) <bernd.fix&#064credit-suisse.com> - fix for 31 byte issue and exception throwing by Whirlpool.</li>
<li>David M. Lee <dmlee&#064Crossroads.com> - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>
<li>Mike Dillon <md5&#064embody.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>
<li>tu-vi cung <t2cung&#064hotmail.com> - patch for out of bounds problem in getDecoderStream method.</li>
<li>Chris Schultz <cschultz&#064gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.</li>
<li>David M. Lee <dmlee&#064Crossroads.com> - implementation assistance with streaming CMS classes.</li>
<li>Joel Rees <rees&#0644ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>
<li>Francesc Sau <francesc.sau&#064partners.netfocus.es> - micro fix for tsp Accuracy class.
<li>Larry Bugbee <bugbee@064mac.com> - initial ECNR implementation.</li>
<li>Remi Blancher <Remi.Blancher@064keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>
<li>Brian O’Rourke <brianorourke@064gmail.com> - patch for signature creation time override in OpenPGP.</li>
<li>Andreas Schwier <andreas.schwier@064cardcontact.de> - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>
<li>David Josse <david.josse@064transacttools.net> - Patch for trailer function in version 2 signature packets.</li>
<li>Kishimoto Kazuhiko <kazu-k@064hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>
<li>Lawrence Tan <lwrncan@064gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>
<li>Carlos Valiente <superdupont@064gmail.com> - Addition of CRL writing to the PEMWriter class.</li>
<li>Keyon AG, Martin Christint, <a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>
<li>Olaf Keller, <olaf.keller.bc@064bluewin.ch> - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>
<li>J&ouml;rj Eichhorn <eichhorn@064ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>
<li>Karsten Ohme <widerstand@064t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name types for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.</li>
<li>Carlos Lozano Ruiz <carlos@064tradise.com> - patch for <ctrl><m> only handling in CRLFOutputStream.</li>
<li>John Alfred Prufrock <j.a.prufrock@064gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>
<li>Stefan Neusatz Guilhen <sneusatz@064gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>
<li>Marzio Lo Giudice <marzio.logiudice@064gmail.com> - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.</li>
<li>Georg Lippold <georg.lippold@064gmix.de> - initial implementation of NaccacheStern cipher.</li>
<li>Chris Viles <chris_viles@064yahoo.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@064rub.de> - performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream.</li>
<li>Maria Ivanova <maria.ivanova@064gmail.com> - support for tags > 30 in ASN.1 parsing.
<li>Armin Hämmerling <a href="arminha@student.ethz.ch">arminha@student.ethz.ch</a> - first cut of internationalisation, initial PKIX validation classes.</li>
<li>Marius Schilder <a href="mschilder@064google.com">mschilder@064google.com</a> - main set of test vectors for Bleichenbacher's forgery attack.</li>
<li>Xavier Le Vourch <a href="xavier@064brittanysoftware.com">xavier@064brittanysoftware.com</a> - general code clean ups.</li>
<li>Erik Tews <a href="e_tews@cdc.informatik.tu-darmstadt.de">e_tews@cdc.informatik.tu-darmstadt.de</a> - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
<li>Thomas Dixon <a href="reikomusha@064gmail.com">reikomusha@064gmail.com</a> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis <a href="info@064frankcornelis.be">info@064frankcornelis.be</a> - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim <a href="rjoaquim@064cc.isel.ipl.pt">rjoaquim@064cc.isel.ipl.pt</a> - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey <a href="DStacey@allantgroup.com">DStacey@allantgroup.com</a> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Martijn Brinkers <a href="list@064mitm.nl">list@064mitm.nl</a> - better exception handling in CMS enropling, "just in time" modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies <a href="juliusdavies@064gmail.com">juliusdavies@064gmail.com</a> - additional modes and algorithm support in PEMReader.</li>
<li>Matthias G&&#064atrner.de - GnuPG compatibility changes for PBFileProcessor.</li>
<li>Olga K&&#064kahtler@olga.kcaethler&&#064hip-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 <a href="germano.rizzo@064gmail.com">germano.rizzo@064gmail.com</a> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>N&uuml;ria Mar&iacute; <a href="numaa@064hotmail.com">numaa@064hotmail.com</a> - patch for alternate data type recognition in CMSignedDataParser.</li>
<li>Janis Schuller <a href="js@064tzi.de">js@064tzi.de</a> - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet <a href="mike@064samblanet.com">mike@064samblanet.com</a> - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns <a href="mstjohns@064comcast.net">mstjohns@064comcast.net</a> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA.</li>
<li>Ramon Keller <a href="ramon.keller@064gmx.ch">ramon.keller@064gmx.ch</a> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Mark Nelson <a href="mark@064nbr.com">mark@064nbr.com</a> - correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov <a href="eugene_gff@064ukr.net">eugene_gff@064ukr.net</a> - mask fix to single byte read in TlsInputStream.</li>
<li>Julien Pasquier <a href="julienpasquier@064free.fr">julienpasquier@064free.fr</a> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp <a href="pknopp@064ntg.de">pknopp@064ntg.de</a> - fix for named curve recognition in ECGOST key generation.</li>
<li>Jakub Gwozdz <a href="gwozdziu@064rpm.pl">gwozdziu@064rpm.pl</a> - addition of getTsa() to TimeStampTokenInfo.</li>
<li>Bartosz Malkowski <a href="bmalkow@064tigase.org">bmalkow@064tigase.org</a> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
<li>Tal Yacobi <a href="tal.yacobi@064octavian-tech.com">tal.yacobi@064octavian-tech.com</a> - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi <a href="massimiliano.ziccardi@064gmail.com">massimiliano.ziccardi@064gmail.com</a> - support for counter signature reading in CMS API, update for multiple counter signature attributes.</li>
<li>Andrey Pavlenko <a href="andrey.a.pavlenko@064gmail.com">andrey.a.pavlenko@064gmail.com</a> - security manager patch for PKCS1Encoding property check.</li>
<li>Mike StJohns <a href="mstjohns@064comcast.net">mstjohns@064comcast.net</a> - updates to KeyPurposeId.</li>
<li>J Ross Nicoll <a href="jrn@064jrn.me.uk">jrn@064jrn.me.uk</a> - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson <a href="mavricknz@064yahoo.com">mavricknz@064yahoo.com</a> - patch to construtor for CRMF CertSequence.</li>
<li>Gabriele Contini <a href="gcontini@064hotpop.com">gcontini@064hotpop.com</a> - identified a bug in ASN.1 library with handling of
unterminated NDEF's.</li>
<li>Roelof Naude <roelof.naude@epiuse.com> - patch for TLS client to send empty client certs in response to HP_CertificateRequest.</li>
<li>Patrick Peck <peck@signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay <lemaymd@64lemaymd.com> - identified problem with EAX [#BIA-93].</li>
<li>Alex Dupre <alex@64FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BIA-90].</li>
<li>Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BIA-102].</li>
<li>Michael Schoene <michael@64sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Ion Larrañaga <ilarra@s21sec.com> - fix to default partial packet generation in BCPGOutputStream.</li>
<li>Bob Kerns <bob.kerns@positscience.com> - fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer <stefan.meyer@64ewe.de> - backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore <Robert.J.Moore@allanbank.com> - speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai <ru@64po.ntts.co.jp> - speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic <emir.bucalovic@64mail.com> - initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson <tobbe79@64gmail.com> - initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick <bouncycastle_pfitz@64fitzpatrick.cc> - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
<li>Henrik Andersson <k.henrik.andersson@64gmail.com> - addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit <cagdascirit@64gmail.com> - subjectAlternativeName fix for x509CertStoreSelector.</li>
<li>Harakiri <harakiri_23@64yahoo.com> - datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henriques <pmahenriques@64gmail.com> - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kimmeringer <job@64kimmeringer.de> - verbose mode for ASN1Dump, support for DERExternal.</li>
<li>Richard Farr <rfarr.se@64gmail.com> - initial SRP-6a implementation.</li>
<li>Thomas Castiglione <castiglione@64au.ibm.com> - patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani <eromani@64sogei.it> - patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren <r737lundgren@64gmail.com> - CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petr Kadlec <smormegil@64centrum.cz> - fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener <antener_a@64gmx.ch> - fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat <hsrawat@64yahoo.com> - fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann <linde@gmail.com> - patch for PKCS12 key store to support more flexible attribute specifications [BMA-42].</li>
<li>Alex Artamonov <alexart.home@64gmail.com> - name look up patch for GOST-2001 parameters.</li>
<li>Mike Lyons <mlyons@64layer7tech.com> - work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
<li>Chris Cole <chris_h_cole@64yahoo.com> - identified a problem handling null passwords when loading a BKS keystore.</li>
<li>Tomas Krivanek <tom@64attack.cz> - added checking of Sender header to SignedMailValidator.</li>
<li>Michael <emfau@64t-online.de> - correction of field error in getResponse method in CertRepMessage.
Trevor Perrin <trevor@cryptography.com> addition of constant time equals to avoid possible timing attacks.

Markus Kiläring <markus@064primekey.se> several enhancements to TimeStampResponseGenerator.

Dario Novakovic <darionis@064yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith <msmith@064cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio <andrea.zilio@064gmail.com> fix for PEM password encryption of private keys.

Alex Birkett <alex@064birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant <waynedgrant@064gmail.com> additional OIDs for PKCS10 and certificate generation support.

Frank Cornelis <info@064frankcornelis.be> additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner <jan@064dittberner.info> addHeader patch for SMIME generator.

Bob McGowan <bob.mcgood@064btinternet.com> patch to support different content and mgf digests in PSS signing.

Ivo Matheis <i.matheis@064seeburger.de> fix to padding verification in ISO-9796-1.

Marco Sandrini <messa@064gmail.com> patch to add IV to ISO9797Alg3Mac.

Alf Malf <alfamilf@064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa <alfonso.massa@064insiel.it> contributions to CMS time stamp classes.

Giacomo Boccardo <gboccardo@064unimaticaspa.it> initial work on CMSTimeStampedDataParser.

Arnis Tartu <arnis@064ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociński <j.sikociinski@064gdzie.pl> addition of Features subpacket support to OpenPGP API.

Juri Hudolejev <jhudolejev@064gmail.com> JavaDoc fix to CMSFilteredDataParser.

Liane Velten <liane.velten@064hip-consulting.com> fine tuning of code for DHP parameters validation.

Shawn Willden <swillden@064google.com> additional functionality to PGPKeyRing.

Atanas Krachev <akrachev@064gmail.com> added support for revocation signatures in OpenPGP.

Mickael Laiking <mickael.laiking@064keynectis.com> initial cut of EAC classes.

Tim Buktu <tbuktu@064hotmail.com> Initial implementation of NTRU signing and encryption.

Bernd <bernd@064gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak <stein.inge.morisbak@064BEKK.no> Test code for lower case Hex data in PEM headers.

Andreas Schmid <andreas.schmid@064ngtech.com> Additional expiry time check in PGPPublicKeys.

Phil Steitz <phil.steitz@064gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin <ignat.korchagin@064gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petar Petrov <pet.petrov@064bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick <daniel.f.nwr@064gmail.com> Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson <Andy.Neilson@quest.com>a further patches to deal with multiple providers and PEMReader.

Ted Shaw <xiao.xj@064gmail.com> path to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth <Eleriseth@064WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUUVW99v3yNV3IWROG8.fms> speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.
<li>Kenny Root <kenny@the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>

<li>Maarten Bodewes <maarten.bodewes@#64gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>

<li>Philip Clay <phil_b@#64gayahoo.com> Initial implementation of J-PAKE.</li>

<li>Brian Carlstrom <bdc@#64carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>

<li>Samuel LidéKeacuten Borell <samuel@#64primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinders.</li>

<li>Sergio Demian Lerner <sergiolerner@#64certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.</li>

<li>Tim Whittington <Tim.Whittington@#64orionhealth.com> patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDCrypt, PGP API documentation and code quality work.</li>

<li>Marcus Lundblad <marcus.lundblad@#64primekey.se> patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>

<li>Andrey Zhozhin <zhozhin@#64xrm.ru> patch for override of TSP SignerInfo attributes.</li>

<li>Sergey Tiu nov <5555d@#64gmail.com> initial cut of DVCS classes.</li>

<li>Damian Kolasa <fatfreddy@#64gmail.com> ASN1Sequence patch for class cast issue in X9Curve.</li>

<li>Tim Whittington &lt;Tim.Whittington@#64orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDCrypt, PGP API documentation and code quality work.</li>

<li>Daniie Hirschere <dev@#64daniel-hirsch.de> patch to support parsing of explicit EC parameters in PEM files.</li>

<li>Daniele Ricci <daniele.athome@#64gmail.com> initial implementation of EC keys for OpenPGP and RFC6637 support.</li>

<li>Matti Aarnio <matti.aarnio@#64mectics.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.</li>

<li>Babak Najafi <bnajafi@#64akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.</li>

<li>Eric M.uuml;ller <eric.mueller@#64sage.de> additional standard algorithm name lookups in JcaPMEKeyConverter.</li>

<li>Mathias Herberts <Mathias.Herberts@#64gmail.com> fix to inOff usage in RFC3394WrapEngine.</li>

<li>Daniil Ivanov <daniil.ivanov@#64gmail.com> addition of provider support for GOST HMAC SecretKeyFactory.</li>

<li>Daniele Grasso <daniele.grasso86@#64gmail.com> contributions to final Key calculation code for SRP6.</li>

<li>Arnis Tartu <arnis@#64ut.ee> checker for generated key vs OID in JceCMSCContentEncryptorBuilder.</li>

<li>AxelVDVB <axel-VDVB@#64riseup.net> initial implementation of Shacal2.</li>

<li>Roberto Tyley <> further work on completing gradle build.</li>

<li>Waldemar Dick <wdick@#64devmue.de> code improvement in x500 ASN.1 package.</li>
Sid Steward <sid.steward@pdflabs.com> code improvements to ASN1Boolean.</li>
<li>Alex Klyubin <klyubin@6387google.com> AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett <gsoc.student@6387gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter <andreas.reiter@iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller <kieran.miller@6387gmail.com> initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehli <ehli@6387arago.de> Additional support for BSI plain ECDSA in the provider.</li>
<li>Daniel Heldt <Daniel.Heldt@6387cryptovision.com> Initial support for encodable state message digests.</li>
<li>Robert Bushman <bouncycastle@6387traxel.com> Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts <aarts@6387n4tisthul.de> 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 Sriram <mail_kb@6387yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze <marco@6387nightlabs.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@6387gmail.com> addition of getSignatureAlgorithmID to BasicOCSPResp.</li>
<li>dstutz <https://github.com/dstutz> added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich <tobias.wich@6387ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens <hauke@6387hauke-m.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman <dmz@6387galois.com> Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza <ltj.kapitza@6387schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund <johan@6387primekey.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@6387riseup.net> Contributions to BCrypt/OpenBSD BCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins <derek@6387ihtfp.com> Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky <peto@6387halicky.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@6387gmail.com> initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce <https://github.com/dicroce> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>Björn Kautler <https://github.com/Vampire> Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Schumann <https://github.com/dschumann> method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
<li>Michael <MSKnete@6387web.de> initial fix for bitStrength issue for OpenPGP EC keys.</li>
<li>Tobias Wagner <tobias.wagner@6387n-design.de> Fix SecureRandom handling in BCAsymmetricKeyWrapper [#BJA-536].</li>
<li>Sergio Giro <sgiro@6387google.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.</li>
<li>bschuette &lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSignedDataParser.</li>
<li>Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
<li>Jan Willem Janssen &lt;j.w.janssen+bouncycastle@#064lxtemne.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial content signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.</li>
<li>Kai Kramer &lt;kai.kramer@#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoit Charles &lt;benoit.charles@#064pentrust.com&gt; Fix for IES data length check on decryption.</li>
<li>Niko &lt;nfink95@#064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.</li>
<li>akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.</li>
<li>Matthias Edelhoff &lt;Matthias.Edelhoff@#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
<li>Lukasz Deputat &lt;lukasz.deputat@#064gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592].</li>
<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.</li>
<li>Andrzejecutie Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.</li>
<li>Slawomir Jaranowski &lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>
<li>William Glanton &lt;wglanton77@#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].</li>
<li>jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegle &lt;jnaegle@grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>Andrew Bonventre &lt;https://github.com/andybons&gt; NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.</li>
<li>The Intel Security Team &lt;x analysis detecting the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine.</li>
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.657 cxf-tools-wadlto-jaxrs 2.7.14

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1.658 shared-mime-info 1.8 4.el7

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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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- analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

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#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optional): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start   End   Blocks  Id  System
-------------------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
-------------------

Create 2st primary partition
1beb87248e05d6e4e6626749da650d23 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73f6e bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
__ts_dev__2 4096 20479 8192 a5 FreeBSD
-------------------

Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fs size bs size cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):

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

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end    size   fstype        fsize   bsize   cpg
a:  4096  6144   2049  4.2BSD         0     0     0
b:  4096 20479  16384   unused        0     0
"d:  0  16064  16065  unused        0     0

BSD disklabel command (m for help):
Command (m for help):

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

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused  5  4.1BSD  9  4.4LFS  d  boot
1  swap   6  Eighth Edition a  unknown e  ADOS
2  Version 6  7  4.2BSD  b  HPFS  f  HFS
3  Version 7  8  MS-DOS  c  ISO-9660 10  AdvFS
4  System V

BSD disklabel command (m for help):

1.686 unzip 6.0 19.el7
1.686.1 Available under license:

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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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* MoreFiles
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* *
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* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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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."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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-----

The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch],
eplode.c) was originally written by Mark Adler who submitted it
as public domain code.

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

1.687 slf4j-api 1.7.12

1.688 e2fsprogs 1.41.9

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Gadi Oxman, August 1995
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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.>
Copyright (C) 19yy <name of author>

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

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

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

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  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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

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

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Theodore Ts'o 
23-June-2007

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Version 2, June 1991

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, 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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In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) 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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   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary
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<one line to give the program'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.

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

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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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[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.

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

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

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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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
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.

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

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/*

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*/
/**
**
* [@link FactoryBean] that obtains a WebSphere [@link javax.management.MBeanServer]
* reference through WebSphere's proprietary <code>AdminServiceFactory</code> API,
* available on WebSphere 5.1 and higher.
*<p>Exposes the <code>MBeanServer</code> for bean references.
* This FactoryBean is a direct alternative to [@link MBeanServerFactoryBean],
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
*  
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
* @see com.ibm.websphere.management.MBeanFactory#getUserMBeanServer()
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jndi/JndiObjectTargetSource.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/annotation/AnnotationConfigApplicationContext.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jndi/JndiObjectLocator.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/support/AbstractMessageSource.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/scheduling/support/CronSequenceGenerator.java
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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/validation/beanvalidation/CustomValidatorBean.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/scheduling/config/ScheduledTaskRegistrar.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java
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1.723 xml-beans 2.6.0

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Export-Package: io.netty.buffer;uses:="io.netty.util";version="4.0.27.Final"
Built-By: norman
Tool: Bnd-2.1.0.20130426-122213
Bundle-Name: Netty/Buffer
Created-By: Apache Maven Bundle Plugin
Bundle-Vendor: The Netty Project
Build-Jdk: 1.7.0_75
Bundle-Version: 4.0.27.Final
Bnd-LastModified: 1427990876593
Bundle-ManifestVersion: 2
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
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 */

Found in path(s):
* /opt/cola/permits/1132421808_1613177436.31/0/airline-0-6-sources-2-
jar/io/airlift/command/ParseCommandMissingException.java
* /opt/cola/permits/1132421808_1613177436.31/0/airline-0-6-sources-2-jar/io/airlift/command/ParseException.java
* /opt/cola/permits/1132421808_1613177436.31/0/airline-0-6-sources-2-jar/io/airlift/command/ParseOptionConversionException.java
* /opt/cola/permits/1132421808_1613177436.31/0/airline-0-6-sources-2-jar/io/airlift/command/ParseOptionMissingException.java
* /opt/cola/permits/1132421808_1613177436.31/0/airline-0-6-sources-2-jar/io/airlift/command/ParseCommandUnrecognizedException.java
* /opt/cola/permits/1132421808_1613177436.31/0/airline-0-6-sources-2-jar/io/airlift/command/ParseArgumentsUnexpectedException.java
* /opt/cola/permits/1132421808_1613177436.31/0/airline-0-6-sources-2-jar/io/airlift/command/Option.java
* /opt/cola/permits/1132421808_1613177436.31/0/airline-0-6-sources-2-jar/io/airlift/command/SingleCommand.java
* /opt/cola/permits/1132421808_1613177436.31/0/airline-0-6-sources-2-jar/io/airlift/command/Cli.java
* /opt/cola/permits/1132421808_1613177436.31/0/airline-0-6-sources-2-jar/io/airlift/command/Arguments.java
* /opt/cola/permits/1132421808_1613177436.31/0/airline-0-6-sources-2-jar/io/airlift/command/ParseArgumentsMissingException.java
* /opt/cola/permits/1132421808_1613177436.31/0/airline-0-6-sources-2-jar/io/airlift/command/ParseOptionMissingValueException.java

1.735 grizzly-http 2.3.15-gfa
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1.737 hpack 1.0.2

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* lib/libcrypto/liboswcrypto/cryptodev.c
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Harald Jenny and Rene Mayrhofer, 2010-03-27
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1.742 libndp 1.2 7.el7
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/TangdixiDCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.h
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/TangdixiDCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.m
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCApathButton-39e410/Example-Swift/Example-Swift-Bridging-Header.h

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Open Source Used In Finesse Software 12.6(1) 7032

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

Pod::Spec.new do |

  s.name         = "DCPathButton"
  s.version      = "2.1.1"
  s.summary      = "A beautiful button copy from Path®"

  s.description = <<-DESC
DCPathButton is a menu button, design by an famous App Path®. Since Path® 4.0, it return to use a tab bar instead of a side bar, and also change the menu button. So I try to implement it and then the DCPathButton born :)  
DESC

  s.homepage     = "https://github.com/Tangdixi/DCPathButton"

  s.license      = {
    :type => 'MIT',
    :text  => 'The DCPathButton use the MIT license'
  }

  s.author       = { "Tangdixi" => "Tangdixi@gmail.com" }

  s.platform     = :ios, '7.0'

  s.source       = {
    :git => "https://github.com/Tangdixi/DCPathButton.git",
    :tag  => "2.1.1"
  }

  s.source_files = 'DCPathButton/Classes/**.{h,m}'

  s.resources    = ['DCPathButton/Sounds/**']

  s.frameworks   = 'QuartzCore','AudioToolbox'

  s.requires_arc = true

end

Found in path(s):
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-SwiftTests/Example_SwiftTests.swift
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/AppDelegate.swift
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarButtonItemViewController.m

1.757 shindig-common 2.0.2

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1.766 bzip2 1.0.5

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.767 commons-lang3 3.3.2

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1.768 libdnet 1.12 13.1.el7

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1.770 gsoap 2.6.2

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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
 *    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 CyberLogin for Linux which allows logging onto EON
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1.772 pkix-ssh 10.1

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/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary <code>AdminServiceFactory</code> API,
* available on WebSphere 5.1 and higher.
* 
* <p>Exposes the <code>MBeanServer</code> for bean references.
* This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
* 
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
* @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
* @see javax.management.MBeanServer
*/
* @see MBeanServerFactoryBean
* /

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

That's all there is to it!
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

(May be used for SSL/TLS support) Uses the [LGPL](https://www.gnu.org/licenses/lgpl.html) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are
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## libressl

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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.

## MIT Kerberos

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Heimdal

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OpenLDAP

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libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.783 gzip 1.5-10.el7

1.784 simple 2.6.2

1.784.1 Available under license :

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1.785 glib-networking 2.50.0 1.el7

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numbered 2 because it goes with version 2 of the ordinary GPL.]

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For the following XML Schemas for Java EE Deployment Descriptors:
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
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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/request/impl/ApacheHttpRequestFactory.java
* /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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  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/internal/config/Builder.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/internal/SdkFilterOutputStream.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/regions/Region.java
* /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/util/Throwables.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/EncodingSchemeEnum.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/internal/http/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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jar/com/amazonaws/transform/VoidStaxUnmarshaller.java
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jar/com/amazonaws/waiters/AcceptorPathMatcher.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/HttpClientConfigJsonHelper.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/ServiceEndpointBuilder.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/handlers/HandlerChainFactory.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/AmazonHttpClient.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/basic/AWSCredentials.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/IdentityEndpointBuilder.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/metrics/ByteThroughputProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/Wrapped.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/HostRegexToRegionMappingJsonHelper.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
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/HttpMethodName.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/AWSCredentials.java
* /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/retry/internal/CredentialsEndpointRetryPolicy.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/LengthCheckInputStream.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/internal/SignerConstants.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/event/DeliveryMode.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/internal/AWS4SignerUtils.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/auth/InstanceProfileCredentialsProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/internal/EC2MetadataClient.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/internal/DynamoDBBackoffStrategy.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/HttpRequestAbortTaskImpl.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
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTrackerImpl.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/timers/client/AbortTaskTrackerImpl.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/auth/NoOpSignerProvider.java
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* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/util/ByteUtils.java
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* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/packet/NamedElement.java
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* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/packet/SimpleIQ.java
* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/packet/StreamOpen.java
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* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/packet/StreamFeatureProviderInfo.java
* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/packet/EmptyResultIQ.java
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  jar/org/jivesoftware/smack/SmackException.java
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* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/sasl/core/ScramMechanism.java
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* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/compression/Java7ZlibInputOutputStream.java
* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/util/dns/DNSResolver.java
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* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/parsing/UnparseableStanza.java
* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/parsing/ExceptionThrowingCallback.java
* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/parsing/ExceptionLoggingCallback.java
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* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/XMPPConnectionRegistry.java
* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/Manager.java
* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/sasl/packet/SaslStreamElements.java
* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/initializer/UrlInitializer.java

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* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/sasl/core/ScramPlusMechanism.java
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* /opt/cola/permits/1148512768_1616956578.83/0/smack-core-4-3-4-sources-jar/org/jivesoftware/smack/filter/PresenceTypeFilter.java
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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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jar/com/mastfrog/jackson/DurationSerializationMode.java
* /opt/ws_local/PERMITS_SQL/1078139564_1597259690.4/0/jackson-2-6-6-sources-1-
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* /opt/ws_local/PERMITS_SQL/1078139564_1597259690.4/0/jackson-2-6-6-sources-1-
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Device drivers     src/mesa/drivers/*    MIT, generally
Gallium code       src/gallium/          MIT
Ext headers        include/GL/glext.h    Khronos
                   include/GL/glxext.h
GLX client code    src/glx/              SGI Free Software License B
C11 thread         include/c11/threads*.h Boost (permissive)
                   emulation
</pre>

In general, consult the source files for license terms.

/* Legal characters in GLSL are:
 * * Identifier characters:
 * *   Letters a-z
 * *   Letters A-Z
 * *   Underscore
 * *   Numbers 0-9 */
* Punctuation:
* Period, plus, dash, slash, asterisk, percent, angled brackets,
* square brackets, parentheses, braces, caret, vertical bar,
* ampersand, tilde, equals, exclamation point, colon, semicolon,
* comma, and question mark
*
* Special:
* Number sign (as used in preprocessor)
* Backslash just before newline as line continuation
 *
* White space:
* Space, horizontal tab, vertical tab, form feed, carriage-return,
* and line-feed.
* [GLSL Language Specification 4.30.6, section 3.1]
* In this file, we test each of these in turn as follows:
* Identifier characters: All pass through unchanged
* Punctuation: All pass through unchanged
* Special: Empty directive replaced with blank line
* Line continuation merges two lines, then a blank line
* Whitespace: 4 horizontal space characters each replaced with space
* 2 newline characters each replaced with a newline
* abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

0123456789

- + - / *
% < > [
] (
) {
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#
# Authors:
#    Ian Romanick <idr@us.ibm.com>

bsd_license_template = """%s
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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> > What we meant with that is that we made an exception for clause 2.
> > Instead of clause 2, in the case of the Mesa project, you have to name
> > the technique Jimenez’s MLAA in the config options of Mesa. We did that
> > just to allow them to solve license issues. This exception should be for
> > the Mesa project, and any project using Mesa, like Fedora.
> > > We want to widespread usage of our MLAA, so we want to avoid any kind of
Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement: "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license
Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
*   "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
*   Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

1.807 jackson-jaxrs 1.9.2
1.807.1 Available under license:

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Version 3, 29 June 2007

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1.808 curl 7.29.0

1.808.1 Available under license:

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

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libcurl http://curl.haxx.se/docs/copyright.html

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GnuTLS http://www.gnutls.org/
(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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NSS     http://www.mozilla.org/projects/security/pki/nss/

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axTLS   http://axtls.sourceforge.net/

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares  http://daniel.haxx.se/projects/c-ares/license.html

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

zlib    http://www.gzip.org/zlib/zlib_license.html

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

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

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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
1.809 json-java 20070829

1.809.1 Available under license:

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

/ *

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*/

Found in path(s):
* /opt/ws Local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-
sources-jar/org/json/JSONWriter.java
* /opt/ws Local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-
sources-jar/org/json/JSONStringer.java

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

/ *

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/HTTP.java
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/XMLTokener.java
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONTokener.java
* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONArray.java
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* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/CookieList.java
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* /opt/ws_local/PERMITS_SQL/1000765161_1593638833.66/0/json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/CDL.java

1.810 commons-daemon 1.2.2

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1.812 libcap-ng 0.7.5 4.el7

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
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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
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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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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

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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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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* /opt/ws_local/PERMITS_SQL/1081955408_1597852744.52/0/jackson-mapper-asl-1-8-0-sources-1-jar/org/codehaus/jackson/map/MappingJsonFactory.java

### 1.8.19 Fribidi

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1.827 gdb 7.6.1-114.el7

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#
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# along with this program. If not, see <http://www.gnu.org/licenses/>.
"""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

Open Source Used In Finesse Software 12.6(1) 7570


import os.path
import subprocess

def get_update_list():
    
    """Return the list of files to update.
    
    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "/%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" % (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.
    """
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
    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.getcwdb())
    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[31;3mREMINDER: The following files must be updated by hand.\033[0m
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print "  ", filename

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

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

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

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

# The list of files to update by hand.
BY_HAND = (
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/**",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armor.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopt.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", 
"sim/mips/m16run.c", "sim/mips/sim-main.c", "sim/moxie/moxie-gdb.dts", 
# Not a single file in sim/ppc/ appears to be copyright FSF :-(. 
"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h", 
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h", 
"sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c", 
"sim/ppc/gnu-support.h", "sim/ppc/gnu-semantics.h", "sim/ppc/cpu.h", 
"sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in", 
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01", 
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h", 
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h", 
"sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c", 
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h", 
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c", 
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h", 
"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c", 
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h", 
"sim/ppc/hw_idc.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h", 
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c", 
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c", 
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c", 
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h", 
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c", 
"sim/ppc/sim-endian.n.h", "sim/ppc/filter_filename.c", 
"sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c", 
"sim/ppc/misc.c", "sim/ppc/decode.c", "sim/ppc/psim.h", 
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c", 
"sim/ppc/decodeinstructions", "sim/ppc/tree.h", "sim/ppc/README", 
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h", 
"sim/ppc/corefile.h", "sim/ppc/psim.c", 
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c", 
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c", 
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c", 
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c", 
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h", 
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h", 
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h", 
"sim/ppc/device_table.c", "sim/ppc/ff.c", "sim/ppc/ff.c", 
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table", 
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h", 
"sim/ppc/hw_htab.c", "sim/ppc/ff.h", "sim/ppc/ld-decode.c", 
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c", 
"sim/ppc/decode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c", 
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c", 
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h", 
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h", 
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s", )
if __name__ == "__main__":
    main()

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Version 3, 29 June 2007

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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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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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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 root function must still compute square roots.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.>
Copyright (C) <year> <name of author>

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

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

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

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

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

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

That's all there is to it!
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[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.]

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software—-to make sure the software is free for all its users.

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

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

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.
We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

We call this license the *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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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
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of it, thus forming a work based on the Library, and copy and
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The modified work must itself be a software library.

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

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

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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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.

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.

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`Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
BEGIN{
  FS="\"; 
  print "/** => Do not modify this file!!  \
  *- buffer-read-only: t * vi" \
  "set ro:"; 
  print "   It is created automatically by copying.awk."; 
  print "   Modify copying.awk instead. <= */"; 
  print ";" 
  print "#include "defs.h"" 
  print "#include "command.h"" 
  print "#include "gdbcmd.h"" 
  print "" 
  print "static void show_copying_command (char *, int);" 
  print "" 
  print "static void show_warranty_command (char *, int);" 
  print "" 
  print "void _initialize_copying (void);" 
  print "" 
  print "static void;" 
  print "show_copying_command (char *ignore, int from_tty);" 
  print ";"; 
}
}
NR == 1,/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/{
if ($0 ~ //)
{
printf " printf_filtered (\"\\n\");\n";
}
else if ($0 !~ /^[ ]*15\. Disclaimer of Warranty\.[ ]*$/)
{
printf " printf_filtered (\"";
for (i = 1; i < NF; i++)
printf "%s\\\"", $i;
printf "%s\\n\");\n", $NF;
}
}
/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/{
print "}";
print "";
print "static void";
print "show_warranty_command (char *ignore, int from_tty)";
print "{";
}
/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/, /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/{
if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
{
printf " printf_filtered (\"";
for (i = 1; i < NF; i++)
printf "%s\\\"", $i;
printf "%s\\n\");\n", $NF;
}
}
END{
print "}";
print "";
print "void"
print "_initialize_copying (void)";
print "{";
print " add_cmd (\"copying\", no_set_class, show_copying_command,";
print " _(\"Conditions for redistributing copies of GDB.\"),";
print " &showlist);";
print " add_cmd (\"warranty\", no_set_class, show_warranty_command,";
print " _(\"Various kinds of warranty you do not have.\"),";
print " &showlist);";
print "";
print " /* For old-timers, allow \"info copying\", etc. */";
print " add_info (\"copying\", show_copying_command,";
print " _(\"Conditions for redistributing copies of GDB.\"));";
print " add_info (\"warranty\", show_warranty_command,";
print " _(\"Various kinds of warranty you do not have.\"));";

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1.828  cxf-rt-databinding-xmlbeans 2.7.14

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print "}";
}
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1.832 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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1.833 curl 7.26.0
1.833.1 Available under license :

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.

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

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

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

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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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
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user can modify the Library and then relink to produce a modified
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if 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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That's all there is to it!

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# Get modification time of a file or directory and pretty-print it.

scriptversion=2010-08-21.06; # UTC

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

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

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

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

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

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

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

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

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

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

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

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

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

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

That's all there is to it!
This package was debianized by Jean Pierre LeJacq 
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt 
<martin@piware.de> was the package's maintainer up to version 
2.7.19-1. The current maintainer is Jan Dittberner 
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

 Modifications: Added cronjob, configuration file, and man pages.

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obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

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---

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
---

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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-- Nathan
=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
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> -mike
Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
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library to dictact to application writes what license they should be using.=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
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decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
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=20
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University of Missouri - Rolla Phone: (573) 341-6679 
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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
To: Neulinger, Nathan
Cc: cracklib-devel@li...; Alec Muffett
Subject: Re: [Cracklib-devel] cracklib license

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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
Seems like the ideal thing here would be for you and the other distro
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
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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
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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
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> > 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,

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looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

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> the change now ?

yes, go for it. thanks++

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Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
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> >
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> >
> > yes, go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

-------------------------------
From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtrpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

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> 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:

> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> > yes, go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
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  by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
  for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
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@c End:

1.845 asm 5.0.4
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 */
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 *  @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 *  @param access

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* the method's access flags (see {@link Opcodes}). This parameter also indicates if the method is synthetic and/or deprecated.
* @param name
* the method's name.
* @param desc
* the method's descriptor (see {@link Type}).
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see
* {@link Type#getInternalName() getInternalName}). May be <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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/**
* Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [ {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}]
* version.
*
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [ @link Opcodes}).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [ @link Type Type]).
* @throws IllegalStateException
*       If a subclass calls this constructor.
*/

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/**
* Constructs a new [Textifier]. <i>Subclasses must not use this
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* @throws IllegalStateException
*       If a subclass calls this constructor.
*/

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/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
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 *
 * @throws IllegalStateException
 *          If a subclass calls this constructor.
 */

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/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
* @param desc
*     the class descriptor of the annotation class.
*/

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassConstantsCollector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
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*/

/**
 * Creates a new {AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
* version.
* 
* @param owner
* the owner's class name.
* @param access
* the method's access flags (see {@link Opcodes}).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see {@link Type}).
* @param mv
* the method visitor to which this adapter delegates calls. May be <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

Found in path(s):
/proc/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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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,
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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
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* /opt/cola/permits/1136687557_1613859286.0/0/spring-aop-4-3-14-release-sources-2-jar/org/springframework/aop/ProxyMethodInvocation.java
* /opt/cola/permits/1136687557_1613859286.0/0/spring-aop-4-3-14-release-sources-2-jar/org/springframework/aop/target/AbstractBeanFactoryBasedTargetSource.java
* /opt/cola/permits/1136687557_1613859286.0/0/spring-aop-4-3-14-release-sources-2-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java
* /opt/cola/permits/1136687557_1613859286.0/0/spring-aop-4-3-14-release-sources-2-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /opt/cola/permits/1136687557_1613859286.0/0/spring-aop-4-3-14-release-sources-2-jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorFactory.java
* /opt/cola/permits/1136687557_1613859286.0/0/spring-aop-4-3-14-release-sources-2-jar/org/springframework/aop/framework/TargetClassAware.java
* /opt/cola/permits/1136687557_1613859286.0/0/spring-aop-4-3-14-release-sources-2-jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /opt/cola/permits/1136687557_1613859286.0/0/spring-aop-4-3-14-release-sources-2-jar/org/springframework/aop/framework/AbstractPoolingTargetSource.java
* /opt/cola/permits/1136687557_1613859286.0/0/spring-aop-4-3-14-release-sources-2-jar/org/springframework/aop/support/MethodMatchers.java
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1.860 jackson 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 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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* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/core/serializer/support/SerializationFailedException.java
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jar/org/springframework/core/annotation/Order.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/type/classreading/MethodMetadataReadingVisitor.java
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jar/org/springframework/core/convert/support/CharacterToNumberFactory.java
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jar/org/springframework/core/type/filter/AnnotationTypeFilter.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/ConcurrentMap.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java
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jar/org/springframework/core/PriorityOrdered.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/type/StandardMethodMetadata.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/io/UrlResource.java
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jar/org/springframework/core/util/AntPathStringMatcher.java
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jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
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jar/org/springframework/core/task/support/ConcurrentExecutorAdapter.java
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jar/org/springframework/core/enums/LetterCodedLabeledEnum.java
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jar/org/springframework/core/convert/support/StringToLocaleConverter.java
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jar/org/springframework/core/type/ClassMetadata.java
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1.868 tiles-el 3.0.8

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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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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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That's all there is to it!

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* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-
jar/org/springframework/scheduling/quartz/SimpleTriggerFactoryBean.java
* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-
jar/org/springframework/scheduling/commonj/TimerManagerTaskScheduler.java
* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-
jar/org/springframework/scheduling/quartz/CronTriggerFactoryBean.java
* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-
jar/org/springframework/scheduling/quartz/MethodInvokingJobDetailFactoryBean.java
* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-
jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java
* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-
jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java
* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-
jar/org/springframework/scheduling/quartz/JobDetailFactoryBean.java

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* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2.jar/org/springframework/mail/javamail/ConfigurableMimeFileTypeMap.java

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# Defaults for the Java Activation Framework
# Additional extensions registered in this file:
# text/plain java c c++ pl cc h
#

text/html

image/gif

image/jpeg

image/x-xwindowdump

application/postscript

application/x-texinfo

application/x-troff

audio/basic

audio/midi

audio/x-aiff

audio/x-mpeg

audio/x-wav

video/mpeg

video/quicktime

video/msvideo
# TEXT TYPES

text/x-speech
text/css
text/csv

# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap
# X-Windows pixelmap (8-bit color)
image/x-xpixmap
# Portable Network Graphics
image/x-png
# Image Exchange Format (RFC 1314)
image/ief
# JPEG
image/jpeg
# RGB
image/rgb
# Group III Fax (RFC 1494)
image/g3fax
# X Windowdump format
image/x-xwindowdump
# Macintosh PICT format
image/x-pict
# PPM (UNIX PPM package)
image/x-portable-pixmpm
# PGM (UNIX PPM package)
image/x-portable-graympgm
# PBM (UNIX PPM package)
image/x-portable-bitmpbm
# PNM (UNIX PPM package)
image/x-portable-anymappnm
# Microsoft Windows bitmap
image/x-ms-bmpbmp
# CMU raster
image/x-cmu-rasterras
# Kodak Photo-CD
image/x-photo-cdpd
# Computer Graphics Metafile
image/cgm
gm
# CALS Type 1 or 2
image/x-cals
# Fractal Image Format (Iterated Systems)
image/fif
# QuickSilver active image (Micrografx)
image/x-mgx-dsf
# CMX vector image (Corel)
image/x-cmxcmx
# Wavelet-compressed (Summus)
image/waveletwi
# AutoCad Drawing (SoftSource)
image/vnd.dwg
# AutoCad DXF file (SoftSource)
image/vnd.dxf
# Simple Vector Format (SoftSource)
image/vnd.svf

# AUDIO/VOICE/MUSIC RELATED TYPES

# """basic"" audio - 8-bit u-law PCM"
audio/basic
audio/basic
# Macintosh audio format (AIpple)
audio/x-aiff aiiff aifc
# Microsoft audio
audio/x-wavwav
# MPEG audio
audio/x-mpegmpea mpega
# MPEG-2 audio
audio/x-mpeg-2mp2a mpa2
# compressed speech (Echo Speech Corp.)
audio/echospeches
# Toolvox speech audio (Voxware)
audio/voxtvox
# RapidTransit compressed audio (Fast Man)
application/fastmanlcc
# Realaudio (Progressive Networks)
application/x-pn-realaudiora ram
# MIDI music data
x-music/x-midimidd
# Koan music data (SSeyo)
application/vnd.koanskp
# Speech synthesis data (MVP Solutions)
text/x-speechtalk

# VIDEO TYPES
# MPEG video
video/mpegmpeg mpg mpe
# MPEG-2 video
video/mpeg-2mpv2 mp2v
# Macintosh Quicktime
video/quicktimeqt mov
# Microsoft video
video/x-msvideoavi
# SGI Movie format
video/x-sgi-moviemovie
# VDOlive streaming video (VDOnet)
video/vdovdo
# Vivo streaming video (Vivo software)
video/vnd.vivoviv

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfigpac
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalkice

# TEXT-RELATED

# PostScript
application/postscriptai eps ps
# Microsoft Rich Text Format
application/rtftf
# Adobe Acrobat PDF
application/pdfpdf
# Maker Interchange Format (FrameMaker)
application/vnd.mifmif
# Troff document
application/x-troffft tr roff
# Troff document with MAN macros
application/x-troff-manman
# Troff document with ME macros
application/x-troff-meme
# Troff document with MS macros
application/x-troff-msms
# LaTeX document
application/x-latexlatex
# Tex/LateX document
application/x-texttextex
# GNU TexInfo document
application/x-texinfotexinfo texi
# TeX dvi format
application/x-dvi
# MS word document
application/msword doc DOC
# Office Document Architecture
application/oda oda
# Envoy Document
application/envoy evy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtar gtar
# 4.3BSD tar format
application/x-tar tar
# POSIX tar format
application/x-ustar ustar
# Old CPIO format
application/x-bcpio bcpio
# POSIX CPIO format
application/x-cpio cpio
# UNIX sh shell archive
application/x-shar shar
# DOS/PC - Pkzipped archive
application/zip zip
# Macintosh Binhexed archive
application/mac-binhex40 hqx
# Macintosh Stuffit Archive
application/x-stuffit sit sea
# Fractal Image Format
application/fractals fif
# "Binary UUencoded"
application/octet-stream uu
# PC executable
application/octet-stream exe
# "WAIS "'"sources"'"
application/x-wais-sources src wsrc
# NCSA HDF data format
application/hdf hdf

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript js mocha
# UNIX bourne shell program
application/x-sh sh
# UNIX c-shell program
application/x-csh csh
# Perl program
application/x-perl
# Tcl (Tool Control Language) program
application/x-tcltc1

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplashspl
# mBED multimedia data (mBED)
application/mbedletmbd
# PowerMedia multimedia (RadMedia)
application/x-rad-powermediarad

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpointppz
# ASAP WordPower (Software Publishing Corp.)
application/x-asapasp
# Astound Web Player multimedia data (GoldDisk)
application/astoundasn

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescriptaxs
# OLE Object (Microsoft/NCompass)
application/x-oleobjectods
# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscapeopp
# Visual Basic objects (Amara)
application/x-webbasicwba
# Specialized data entry forms (Alpha Software)
application/x-alpha-formfrm
# client-server objects (Wayfarer Communications)
x-script/x-wfxclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-streamexe com
# Pointcast news data (Pointcast)
application/x-pcnpn cn
# Excel spreadsheet (Microsoft)
application/vnd.ms-excelxls
# PowerPoint (Microsoft)
application/vnd.ms-powerpointppt
# Microsoft Project (Microsoft)
application/vnd.ms-projectmmp
# SourceView document (Dataware Electronics)
application/vnd.svd
# Net Install - software install (20/20 Software)
application/x-net-installins
# Carbon Copy - remote control/access (Microcom)
application/ccvccv
# Spreadsheets (Visual Components)
workbook/formulaonevts

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrmlwrl vrml
# WIRL - VRML data (VREAM)
application/x-vrmlvrw
# Play3D 3d scene data (Play3D)
application/x-p3dp3d
# Viscape Interactive 3d world data (Superscape)
application/x-svrsvr
# WebActive 3d data (Plastic Thought)
application/x-wvrwvr
# QuickDraw3D scene data (Apple)
application/x-3dmf3dmf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematicama
# Computational meshes for numerical simulations
application/x-meshmsh
# Vis5D 5-dimensional data
application/vis5d5d
# IGES models -- CAD/CAM (CGM) data
 application/igesigs
# Autocad WHIP vector drawings
drawing/x-dwfdwf

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* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2.jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2.jar/org/springframework/scheduling/commonj/DelegatingWork.java
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* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2.jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactory.java
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/.../1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2.jar/org/springframework/mail/SimpleMailMessage.java
/.../1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2.jar/org/springframework/scheduling/quartz/DelegatingJob.java
/.../1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2.jar/org/springframework/mail/javamail/SmartMimeMessage.java
/.../1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2.jar/org/springframework/ui/velocity/VelocityEngineFactory.java

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/.../1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2.jar/org/springframework/mail/javamail/MimeMessagePreparator.java
/.../1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-
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* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
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1.882 jersey-client 1.3

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1.883 libproxy 0.4.11 11.el7

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1.884 libxi 1.7.9-1.el7

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1.885 taglibs-standard-spec 1.2.5

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1.886 pcre 7.8

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Written by: Philip Hazel
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

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

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

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

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

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

done_testing;

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

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

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

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

    $year;
}

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

1.893 lz4-java 1.2.0

1.893.1 Available under license:

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1.894 thrift 0.10.0

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lib/csharp/src/Transport/TTransport.cs
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```
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```
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L. Peter Deutsch
ghost@aladdin.com

*/
```
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lib/ocaml/OCamlMakefile and lib/ocaml/README-OCamlMakefile components:
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1.897 dbunit 2.4.8

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Found in path(s):
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/support/ChildBeanDefinition.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/parsing/CompositeComponentDefinition.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/config/ConfigurableListableBeanFactory.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/support/GenericBeanDefinition.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/support/SimpleBeanDefinitionRegistry.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/config/UnsatisfiedDependencyException.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/propertyeditors/CustomDateEditor.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/access/el/SpringBeanELResolver.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/access/el/ConfigurableListableBeanFactory.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/support/MergedBeanDefinitionPostProcessor.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/propertyeditors/CustomDateEditor.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/access/SingletonBeanFactoryLocator.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/config/MapFactoryBean.java
Open Source Used In Finesse Software 12.6(1) 8221
jar/org/springframework/beans/factory/config/ListFactoryBean.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-
jar/org/springframework/beans/factory/SmartFactoryBean.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-
jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-
jar/org/springframework/beans/factory/annotation/Autowired.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-
jar/org/springframework/beans/factory/config/SmartInstantiationAwareBeanPostProcessor.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-
jar/org/springframework/beans/support/PropertyComparator.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-
jar/org/springframework/beans/factory/annotation/AnnotatedGenericBeanDefinition.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-
jar/org/springframework/beans/factory/annotation/CustomAutowireConfigurer.java

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* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-
jar/org/springframework/beans/propertyeditors/PropertiesEditor.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-
jar/org/springframework/beans/factory/config/BeanDefinition.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-
jar/org/springframework/beans/factory/config/DependencyDescriptor.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-
jar/org/springframework/beans/factory/config/NoSuchBeanDefinitionException.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-
jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessorAdapter.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-
jar/org/springframework/beans/factory/support/ManagedSet.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-
jar/org/springframework/beans/factory/config/BeanDefinitionHolder.java
Found in path(s):
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/support/AbstractBeanDefinition.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/annotation/InitDestroyAnnotationBeanPostProcessor.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/support/BeanDefinitionReaderUtils.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/xml/BeansDtdResolver.java
* /opt/cola/permits/1136702503_1613864971.96/0/spring-beans-3-0-5-release-sources-1-jar/org/springframework/beans/factory/xml/DocumentDefaultsDefinition.java

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Mesa 3-D graphics library
Version: 7.0

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*/

Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version
- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

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Theodore Ts'o
23-June-2007

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

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

image:$(BSD_LIB)

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

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

install-strip: install
install-shlibs-strip: install-shlibs

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

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

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

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

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Gadi Oxman, August 1995

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1.910 commons-collections 4.1

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

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

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or 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
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modification of the work for the customer's own use and reverse
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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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1.914 pam unknown

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1.915 libasyncns 0.8 7.el7
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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
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

   These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those
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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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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or
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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
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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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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.922 jdom 1.0

1.923 jetty-security 8.1.10.v20130312

1.924 jquery-tools 1.2.6 1.2.6

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* Foremost, OpenSSH from which this project is derived.
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* Jan-Pieter Cornet (johnpc) - 2012-03-23 03:25:52 PDT
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/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $*/

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

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#endif /* !_COMPAT_POLL_H_ */

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 */

/* $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

#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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*/

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#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 */

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

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

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

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

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLHUP0x0010
#define POLLNVAL0x0020
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLWBAND0x0080
#define POLLWRBAND0x0100
#endif
#define INFTIM (-1) /* not standard */

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

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

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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);
#endif

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diff -up openssh-7.4p1/sftp-server.8.sftp-force-mode openssh-7.4p1/sftp-server.8
--- openssh-7.4p1/sftp-server.8.sftp-force-mode 2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.8 2017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
 .Op Fl P Ar blacklisted_requests
 .Op Fl p Ar whitelisted_requests
 .Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
 .Ek
 .Nm
 .Fl Q Ar protocol_feature
@@ -138,6 +139,10 @@ 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
On some systems,
diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode 2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c 2017-02-09 10:35:07.190520959 +0100
@@ -65,6 +65,10 @@ struct sshbuf *oqueue;
 /* Version of client */
 static u_int version;

+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
 /* SSH2_FXP_INIT received */
 static int init_done;

 @@ -679,6 +683,7 @@ process_open(u_int32_t id)
 Attrib a;
 char *name;
 int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+mode_t old_umask = 0;

 if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
   (r = sshbuf_get_u32(iqueue, &pflags)) != 0) /* portable flags */
@@ -688,6 +693,10 @@ process_open(u_int32_t id)
   debug3("request %u: open flags %d", id, pflags);
   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);
if (readonly &&
@@ -709,6 +718,8 @@ process_open(u_int32_t id)
}
}
}
+if (permforce == 1)
+(void) umask(old_umask); /* restore umask to something sane */
if (status != SSH2_FX_OK)
send_status(id, status);
free(name);
@@ -1490,7 +1501,7 @@ sftp_server_usage(void)
fprintf(stderr,
    "usage: %s [-ehR] [-d start_directory] [-f log_facility] "
    "[-l log_level][n][t][-P blocklisted_requests] "
-    "[-p whitelisted_requests] [-u umask]\n"
+    "[-p whitelisted_requests] [-u umask] [-m force_file_perms]\n"
    " %s -Q protocol_feature\n",
    __proname, __proname);
exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
pw = pwcopy(user_pw);

while (!skipargs && (ch = getopt(argc, argv,
+    "d:f:l:P:p:Q:u:m:cehR") != -1) { /*switch (ch) {*/
case 'Q':
if (strcasestr(optarg, "requests") != 0) {
@@ -1576,6 +1587,15 @@ sftp_server_main(int argc, char **argv, 
    (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 != '\0' || (permforcemode == 0 &&
+    errno != 0))
+fatal("Invalid file mode \"%s\", optarg);
+break;
case 'h':
default:
sftp_server_usage();

1.937 snappy-java 1.0.5.2

1.938 jersey-bean-validation 2.13
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# Jackson JSON processor

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

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1.943 jackson-mapper-asl 1.9.2

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http://svn.jackson.codehaus.org/browse/jackson/trunk/README.txt?hb=true

== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found from:

http://jackson.codehaus.org/

which also has links to support forums such as mailing lists, as well as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

* Reading (parsing) and writing (generation) of Json content

* Data-binding (data-mapping, [de-]serialization) support to
allow for converting between Json and Java objects

* Support for converting to/from other data formats and access APIs,
to improve interoperability.

=== Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made
to support other non-standard platforms as well.

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1.944 masonry-layout 3.3.2

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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/ScopedProxyFactoryBean.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/interceptor/AsyncExecutionInterceptor.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java
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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/AspectJExpressionPointcutAdvisor.java
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 */
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1:  32  7648  0x83
#2:  7680  8704  0xa5
#5:  7936  4864  0x7 (freebsd)
#6: 12544  3584  0x7 (freebsd)

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End  Blocks  Id  System
----------  ------  ------  ------  ------  --------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End  Blocks  Id  System
----------  ------  ------  ------  ------  --------
__ts_dev__1  2048  4095  1024   83  Linux
----------

Create 2st primary partition
1bebfb7248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8d8f51a88a045db233418dd73f8e bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
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<td>__ts_dev__1</td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td></td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0
BSD disklabel command (m for help):
Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

0  unused           5  4.1BSD       9  4.4LFS       d  boot
1  swap             6  Eighth Edition a  unknown     e  ADOS
2  Version 6        7  4.2BSD       b  HPFS        f  HFS
3  Version 7        8  MS-DOS       c  ISO-9660     10  AdvFS
4  System V

BSD disklabel command (m for help):

1.953 lucene-queries 4.6.0

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1.963 netty-handler 4.0.27.Final

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* /opt/cola/permits/1111298397_1606896142.78/0/netty-handler-4-0-27-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/cola/permits/1111298397_1606896142.78/0/netty-handler-4-0-27-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1111298397_1606896142.78/0/netty-handler-4-0-27-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1111298397_1606896142.78/0/netty-handler-4-0-27-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
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* /opt/cola/permits/1111298397_1606896142.78/0/netty-handler-4-0-27-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/cola/permits/1111298397_1606896142.78/0/netty-handler-4-0-27-final-sources-jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1111298397_1606896142.78/0/netty-handler-4-0-27-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
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* /opt/cola/permits/1111298397_1606896142.78/0/netty-handler-4-0-27-final-sources-jar/io/netty/handler/ssl/ssl/ssl/NotSslRecordException.java
* /opt/cola/permits/1111298397_1606896142.78/0/netty-handler-4-0-27-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1111298397_1606896142.78/0/netty-handler-4-0-27-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/cola/permits/1111298397_1606896142.78/0/netty-handler-4-0-27-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1111298397_1606896142.78/0/netty-handler-4-0-27-final-sources-jar/io/netty/handler/logging/LoggingHandler.java
* /opt/cola/permits/1111298397_1606896142.78/0/netty-handler-4-0-27-final-sources-jar/io/netty/handler/logging/package-info.java
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* /opt/cola/permits/1111298397_1606896142.78/0/netty-handler-4-0-27-final-sources-
jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
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Manifest-Version: 1.0
Export-Package: io.netty.handler.logging;uses="io.netty.buffer,io.netty.channel,io.netty.util.internal.logging";version="4.0.27.Final",io.netty.handler.ssl;uses="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.util,io.netty.util.concurrent;version="4.0.27.Final",io.netty.handler.ssl;uses="io.netty.buffer,io.netty.channel,io.netty.util,io.netty.util.concurrent;version="4.0.27.Final",io.netty.handler.ssl.util;uses="javax.net.ssl";version="4.0.27.Final",io.netty.handler.timeout;uses="io.netty.channel";version="4.0.27.Final",io.netty.handler.traffic;uses="io.netty.channel,io.netty.util.concurrent";version="#4.0.27.Final"
Built-By: norman
Tool: Bnd-2.1.0.20130426-122213
Bundle-Name: Netty/Handler
Created-By: Apache Maven Bundle Plugin
Bundle-Vendor: The Netty Project
Build-Jdk: 1.7.0_75
Bundle-Version: 4.0.27.Final
Bnd-LastModified: 1427990994830
Bundle-ManifestVersion: 2
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Bundle-SymbolicName: io.netty.handler
Bundle-DocURL: http://netty.io/
Import-Package: sun.security.util;resolution:=optional,sun.security.x509;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional,io.netty.buffer;version="[4.0,5)";io.netty.channel;version="[4.0,5)";io.netty.handler.codec;version="[4.0,5)";io.netty.handler.codec.base64;version="[4.0,5)";io.netty.util;version="[4.0,5)";io.netty.util.concurrent;version="[4.0,5)";io.netty.util.internal;version="[4.0,5)";io.netty.buffer;version="[4.0,5)";javax.crypto;javax.crypto.spec;javax.net.ssl;javax.security.auth.x500;javax.security.cert;org.apache.tomcat.jni;version="[1,1,2)";resolution:=optional,org.bouncycastle.asn1.x500;version="[1.50,2)";resolution:=optional,org.bouncycastle.asn1;version="[1,50,2)";resolution:=optional,org.bouncycastle.asn1;version="[1,50,2)";resolution:=optional,org.
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* /opt/cola/permits/1111298397_1606896142.78/0/netty-handler-4-0-27-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 $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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M. Welsh, 6 July 1996

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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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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 or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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1.989 jackson-core 2.11.2
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1.994 lvm2 2.02.130 5.el7

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A decoder that splits the received @link ByteBuf)s dynamically by the value of the length field in the message. It is particularly useful when you decode a binary message which has an integer header field that represents the length of the message body or the whole message.

[@link LengthFieldBasedFrameDecoder] has many configuration parameters so that it can decode any message with a length field, which is often seen in proprietary client-server protocols. Here are some example that will give you the basic idea on which option does what.

**2 bytes length field at offset 0, do not strip header**

The value of the length field in this example is <tt>12 (0x0C)</tt> which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

<pre>
<table>
<thead>
<tr>
<th>lengthFieldOffset</th>
<th>lengthFieldLength</th>
<th>lengthAdjustment</th>
<th>initialBytesToStrip</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0 (= do not strip header)</td>
</tr>
</tbody>
</table>
</pre>

**BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)**

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

**2 bytes length field at offset 0, strip header**

Because we can get the length of the content by calling [@link ByteBuf#readableBytes()], you might want to strip the length field by specifying <tt>initialBytesToStrip</tt>. In this example, we specified <tt>2</tt>, that is same with the length of the length field, to strip the first two bytes.

<pre>
<table>
<thead>
<tr>
<th>lengthFieldOffset</th>
<th>lengthFieldLength</th>
<th>lengthAdjustment</th>
<th>initialBytesToStrip</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2</td>
<td>0</td>
<td>&lt;tt&gt;2&lt;/tt&gt; (= the length of the Length field)</td>
</tr>
</tbody>
</table>
</pre>
* BEFORE DECODE (14 bytes)        AFTER DECODE (12 bytes)
  +--------+----------------+      +----------------+
  | Length | Actual Content |----->| Actual Content |
  +--------+----------------+      +----------------+
  0x000C "HELLO, WORLD"        "HELLO, WORLD"
  +--------+----------------+      +----------------+

* +--------+----------------+
  | Length | Actual Content |
  +--------+----------------+
  0x000E "HELLO, WORLD" | 0x000E "HELLO, WORLD"
  +--------+----------------+

* In most cases, the length field represents the length of the message body
  only, as shown in the previous examples. However, in some protocols, the
  length field represents the length of the whole message, including the
  message header. In such a case, we specify a non-zero
  lengthAdjustment in the message. Because the length value in this example message
  is always greater than the body length by 2, we specify lengthAdjustment = -2
  as compensation.

* lengthFieldOffset = 0
  lengthFieldLength = 2
  lengthAdjustment = -2 (= the length of the Length field)
  initialBytesToStrip = 0

* BEFORE DECODE (14 bytes)        AFTER DECODE (14 bytes)
  +--------+----------------+      +--------+----------------+
  | Length | Actual Content |----->| Length | Actual Content |
  +--------+----------------+      +--------+----------------+
  0xCAFE 0x00000C "HELLO, WORLD" | 0xCAFE 0x00000C "HELLO, WORLD"
  +--------+----------------+      +--------+----------------+

* ch3>3 bytes length field at the end of 5 bytes header, do not strip header

* The following message is a simple variation of the first example. An extra
  header value is prepended to the message. lengthAdjustment is zero
  again because the decoder always takes the length of the prepended data into
  account during frame length calculation.

* lengthFieldOffset = 2 (= the length of Header 1)
  lengthFieldLength = 3
  lengthAdjustment = 0
  initialBytesToStrip = 0

* BEFORE DECODE (17 bytes)        AFTER DECODE (17 bytes)
  +----------------+      +----------------+
  | Header 1 | Length | Actual Content |
  +----------------+      +----------------+
  0xCAFE 0x00000C "HELLO, WORLD" | 0xCAFE 0x00000C "HELLO, WORLD"
  +----------------+      +----------------+
3 bytes length field at the beginning of 5 bytes header, do not strip header

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive lengthAdjustment so that the decoder counts the extra header into the frame length calculation.

lengthFieldOffset = 0
lengthFieldLength = 3
lengthAdjustment = 2
initialBytesToStrip = 0

BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
+----------+----------+----------------+----->+----------+----------+----------------+
| Length  | Header 1 | Actual Content |     | Length  | Header 1 | Actual Content |
| 0x00000C | 0xCAFE | "HELLO, WORLD" |     | 0x00000C | 0xCAFE | "HELLO, WORLD" |
+----------+----------+----------------+----->+----------+----------+----------------+

2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the lengthFieldOffset and the extra header affects the lengthAdjustment. We also specified a non-zero initialBytesToStrip to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify initialBytesToSkip for initialBytesToStrip.

lengthFieldOffset = 1
lengthFieldLength = 2
lengthAdjustment = 1
initialBytesToStrip = 3

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
+--------+--------+--------+----------------+----->+--------+----------------+
| HDR1   | Length | HDR2   | Actual Content |     | HDR2   | Actual Content |
| 0xCA   | 0x000C | 0x00FE | "HELLO, WORLD" |     | 0xFE   | "HELLO, WORLD" |
+--------+--------+--------+----------------+----->+--------+----------------+

2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field, the length field represents the length of the whole message

Let's give another twist to the previous example. The only difference from
the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`.
* Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.
* `<pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* `<b>lengthAdjustment</b>` = `<b>-3</b>` (= the length of HDR1 + LEN, negative)
* `<b>initialBytesToStrip</b>` = `<b>3</b>`
* 
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +-------------------------------------------------+      +-------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-------------------------------------------------+      +-------------------+
* </pre>
* @see LengthFieldPrepender
*/

@ see LengthFieldPrepender

```
* the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`.
* Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.
* `<pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* `<b>lengthAdjustment</b>` = `<b>-3</b>` (= the length of HDR1 + LEN, negative)
* `<b>initialBytesToStrip</b>` = `<b>3</b>`
* 
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +-------------------------------------------------+      +-------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-------------------------------------------------+      +-------------------+
* </pre>
* @see LengthFieldPrepender
*/
```

Found in path(s):
* /opt/cola/permits/1111298289_1606896115.37/0/netty-codec-4-0-27-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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/**
* Utility class for { @link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
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*/

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* /opt/cola/permits/1111298289_1606896115.37/0/netty-codec-4-0-27-final-sources-
  jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/cola/permits/1111298289_1606896115.37/0/netty-codec-4-0-27-final-sources-
  jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
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Manifest-Version: 1.0
Export-Package: io.netty.handler.codec;uses:="io.netty.buffer,io.netty
  .channel,io.netty.util";version="4.0.27.Final",io.netty.handler.codec
  .base64;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";
version="4.0.27.Final",io.netty.handler.codec.bytes;uses:="io.netty
  .buffer,io.netty.channel,io.netty.handler.codec";version="4.0.27.Final",
  channel,io.netty.handler.codec";version="4.0.27.Final",io.netty.handler.
  codec.marshalling;uses:="io.netty.buffer,io.netty.channel,io.netty.
  handler.codec.org.jboss.marshalling";version="4.0.27.Final",io.netty.
  handler.codec.protobuf;uses:="com.google.protobuf,io.netty.buffer,
  io.netty.channel,io.netty.handler.codec";version="4.0.27.Final",io.netty.
  handler.codec.serialization;uses:="io.netty.buffer,io.netty.channel
  .io.netty.handler.codec";version="4.0.27.Final",io.netty.handler.co
dec.string;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.c
odec";version="4.0.27.Final"
Built-By: norman
Tool: Bnd-2.1.0.20130426-122213
Bundle-Name: Netty/Codec
Created-By: Apache Maven Bundle Plugin
Bundle-Vendor: The Netty Project
Build-Jdk: 1.7.0_75
Bundle-Version: 4.0.27.Final
Bnd-LastModified: 1427990974574
Bundle-ManifestVersion: 2
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Bundle-SymbolicName: io.netty.codec
Bundle-DocURL: http://netty.io/
Import-Package: com.google.protobuf;version=[2.5,3);resolution:=optional,
com.jcraft.jzlib;resolution:=optional,
io.netty.buffer;version=[4.0,5),
io.netty.channel;version=[4.0,5),
io.netty.util;version=[4.0,5),
io.netty.util.concurrent;version=[4.0,5),
io.netty.util.internal;version=[4.0,5),
io.netty.util.internal.logging;version=[4.0,5),
.org.jboss.marshalling;resolution:=optional,
org.eclipse.jetty.npn;version=[1,2);resolution:=optional,
sun.nio.ch;resolution:=optional,
.org.eclipse.jetty.alpn;version=[1,2);resolution:=optional
Archiver-Version: Plexus Archiver

Found in path(s):
* /opt/cola/permits/1111298289_1606896115.37/0/netty-codec-4-0-27-final-sources-jar/META-INF/MANIFEST.MF

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* /opt/cola/permits/1111298289_1606896115.37/0/netty-codec-4-0-27-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/cola/permits/1111298289_1606896115.37/0/netty-codec-4-0-27-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/cola/permits/1111298289_1606896115.37/0/netty-codec-4-0-27-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/cola/permits/1111298289_1606896115.37/0/netty-codec-4-0-27-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
Open Source Used In Finesse Software 12.6(1)  8876

* /opt/cola/permits/1111298289_1606896115.37/0/netty-codec-4-0-27-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/1111298289_1606896115.37/0/netty-codec-4-0-27-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1111298289_1606896115.37/0/netty-codec-4-0-27-final-sources-jar/io/netty/handler/codec/misc/CorruptedFrameException.java
* /opt/cola/permits/1111298289_1606896115.37/0/netty-codec-4-0-27-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1111298289_1606896115.37/0/netty-codec-4-0-27-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1111298289_1606896115.37/0/netty-codec-4-0-27-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/cola/permits/1111298289_1606896115.37/0/netty-codec-4-0-27-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
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[See also the ChangeLog file where individuals are attributed in log entries. Likewise in the FAQ file.]

Ben Elliston
setup the project infrastructure (CVS, web page, etc.);
early prototype routines.

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

Robert Colquhoun
Early bug fixes.

John E. Bosom
Contributed substantial original working implementation;
bug fixes;
ongoing guidance and standards interpretation.

Anders Norlander
Early enhancements and runtime checking for supported Win32 routines.

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early bug fixes to condition variables.
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(with Louis Thomas) re-implemented and improved
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enhancements to semaphores;
enhancements to mutexes;
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similar to that implemented by V.Kliathcko;
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as described by A.Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
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The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 9, this Section 9 shall be controlling over the terms of the Non-Disclosure Agreement.

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This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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THE BASIC LIBRARY FUNCTIONS
-----------------------------

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Open Source Used In Finesse Software 12.6(1) 9004
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/RequestedUnattachedReferenceUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/RequestedReferenceTypeMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/RequestedUnattachedReferenceUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/RequestedReferenceTypeMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/RequestedReferenceTypeMarshaller.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wsfed/impl/AddressBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wstrust/impl/CodeUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wstrust/impl/AddressBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wstrust/impl/RenewTargetBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wstrust/impl/AuthenticationTypeMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wstrust/impl/ParticipantsUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wstrust/DelegateTo.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wstrust/impl/EncryptionAlgorithmMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wstrust/impl/StatusUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wstrust/impl/AttributedQNameUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wstrust/impl/AuthenticatorMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wstrust/impl/ActionMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/CanonicalizationAlgorithmImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/CombinedHashMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/CanonicalizationAlgorithmImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/IterationMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/RequestSecurityTokenResponse.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/ToImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/KeyIdentifierUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/EncryptedHeaderImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/IssuerImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsfed/WSFedObjectBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/EntropyImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/ComputedKeyAlgorithmMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/ComputedKeyImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/impl/AbstractWSSecurityObject.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/soap/soap11/impl/DetailUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/lifetime/Lifetime.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/PrimaryImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/ParticipantTypeImpl.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/soap/soap11/impl/DetailImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/soap/soap11/impl/FaultUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wsaddressing/impl/AttributedUnsignedLongImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wsaddressing/impl/AttributedUnsignedLongMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wstrust/Delegatable.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wssecurity/impl/AttributedDateTimeImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wssecurity/impl/EncodedStringMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wssecurity/impl/ExpiresUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wsaddressing/Action.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wssecurity/impl/IterationUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wssecurity/impl/TimestampUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2.jar/org/opensaml/ws/wstrust/Participants.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wspolicy/AppliesTo.java

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wssecurity-secext-1.0.xsd
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/schema/oasis-200401-wss-
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*/
/**
 * Indicates whether this encoder, given the current message context, provides end-to-end message confidentiality. 
 * @param messageContext the current message context 
 * @return true if the encoder provides end-to-end message confidentiality, false if not 
 * @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its 
 * ability to provide message confidentiality. 
 */

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jar/org/opensaml/ws/message/encoder/MessageEncoder.java
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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 
 */

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:


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/** Confidential flag */

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1.1003 eclipse-core-runtime
3.10.0.v20140318-2214
BIRT Runtime

What is it?
-----------
BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.

BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.

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

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

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

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

Running the BIRT Engine in Console
----------------------------------
In order to run the BIRT engine in command you should:

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

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1.1009 gzip 1.5-9.el7

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@c End:

1.1010 jszip 3.2.1
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/*!

JSZip v3.2.1 - A JavaScript class for generating and reading zip files
<http://stuartk.com/jszip>

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(function(f){if(typeof exports=='object'&&typeof module!=="undefined"){module.exports=f()}else if(typeof
define=='function'&&typeof define.amd){define([],f)}else {var g;if(typeof window=='undefined'){g=window}else
if(typeof global=='undefined'){g=global}else if(typeof self=='undefined'){g=this}g.JSZip =
f()})

(function(exports){'use strict';var utils = require('./utils');var support = require('./support');
// private property
var _keyStr = 'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/';

// public method for encoding
exports.encode = function(input) {
  var output = []; var chr1, chr2, chr3, enc1, enc2, enc3, enc4;
  var i = 0, len = input.length, remainingBytes = len;

  var isArray = typeof input !== 'string';
  while (i < input.length) {
    var isArray = utils.getTypeOf(input) !== "string";
remainingBytes = len - i;

if (!isArray) {
    chr1 = input.charCodeAt(i++);
    chr2 = i < len ? input.charCodeAt(i++) : 0;
    chr3 = i < len ? input.charCodeAt(i++) : 0;
} else {
    chr1 = input[i++];
    chr2 = i < len ? input[i++] : 0;
    chr3 = i < len ? input[i++] : 0;
}

enc1 = chr1 >> 2;
enc2 = ((chr1 & 3) << 4) | (chr2 >> 4);
enc3 = remainingBytes > 1 ? (((chr2 & 15) << 2) | (chr3 >> 6)) : 64;
enc4 = remainingBytes > 2 ? (chr3 & 63) : 64;

output.push(_keyStr.charAt(enc1) + _keyStr.charAt(enc2) + _keyStr.charAt(enc3) + _keyStr.charAt(enc4));

} return output.join("");
};

// public method for decoding
exports.decode = function(input) {
    var chr1, chr2, chr3;
    var enc1, enc2, enc3, enc4;
    var i = 0, resultIndex = 0;

    var dataUrlPrefix = "data:";

    if (input.substr(0, dataUrlPrefix.length) === dataUrlPrefix) {
        // This is a common error: people give a data url
        // (data:image/png;base64,iVBOR...) with a {base64: true} and
        // wonders why things don't work.
        // We can detect that the string input looks like a data url but we
        // *can't* be sure it is one: removing everything up to the comma would
        // be too dangerous.
        throw new Error("Invalid base64 input, it looks like a data url.");
    }

    input = input.replace(/[^A-Za-z0-9\+\-/]/g, ":");

    var totalLength = input.length * 3 / 4;
    if (input.charAt(input.length - 1) === _keyStr.charAt(64)) {
        totalLength--;
    }
if (input.charAt(input.length - 2) === _keyStr.charAt(64)) {
    totalLength--;
}
if (totalLength % 1 !== 0) {
    // totalLength is not an integer, the length does not match a valid
    // base64 content. That can happen if:
    // - the input is not a base64 content
    // - the input is *almost* a base64 content, with a extra chars at the
    //   beginning or at the end
    // - the input uses a base64 variant (base64url for example)
    throw new Error("Invalid base64 input, bad content length.");
}
var output;
if (support.uint8array) {
    output = new Uint8Array(totalLength|0);
} else {
    output = new Array(totalLength|0);
}

while (i < input.length) {

    enc1 = _keyStr.indexOf(input.charAt(i++));
    enc2 = _keyStr.indexOf(input.charAt(i++));
    enc3 = _keyStr.indexOf(input.charAt(i++));
    enc4 = _keyStr.indexOf(input.charAt(i++));

    chr1 = (enc1 << 2) | (enc2 >> 4);
    chr2 = ((enc2 & 15) << 4) | (enc3 >> 2);
    chr3 = ((enc3 & 3) << 6) | enc4;

    output[resultIndex++] = chr1;

    if (enc3 !== 64) {
        output[resultIndex++] = chr2;
    }
    if (enc4 !== 64) {
        output[resultIndex++] = chr3;
    }
}

return output;
};
var DataWorker = require('./stream/DataWorker');
var DataLengthProbe = require('./stream/DataLengthProbe');
var Crc32Probe = require('./stream/Crc32Probe');
var DataLengthProbe = require('./stream/DataLengthProbe');

/**
 * Represent a compressed object, with everything needed to decompress it.
 * @constructor
 * @param {number} compressedSize the size of the data compressed.
 * @param {number} uncompressedSize the size of the data after decompression.
 * @param {number} crc32 the crc32 of the decompressed file.
 * @param {object} compression the type of compression, see lib/compressions.js.
 * @param {String|ArrayBuffer|Uint8Array|Buffer} data the compressed data.
 */
function CompressedObject(compressedSize, uncompressedSize, crc32, compression, data) {
    this.compressedSize = compressedSize;
    this.uncompressedSize = uncompressedSize;
    this.crc32 = crc32;
    this.compression = compression;
    this.compressedContent = data;
}

CompressedObject.prototype = {
    /**
     * Create a worker to get the uncompressed content.
     * @return {GenericWorker} the worker.
     */
    getContentWorker : function () {
        var worker = new DataWorker(external.Promise.resolve(this.compressedContent))
            .pipe(this.compression.uncompressWorker())
            .pipe(new DataLengthProbe("data_length"));
        var that = this;
        worker.on("end", function () {
            if(this.streamInfo["data_length"] !== that.uncompressedSize) {
                throw new Error("Bug : uncompressed data size mismatch");
            }
        });
        return worker;
    },
    /**
     * Create a worker to get the compressed content.
     * @return {GenericWorker} the worker.
     */
    getCompressedWorker : function () {
        return new DataWorker(external.Promise.resolve(this.compressedContent))
            .withStreamInfo("compressedSize", this.compressedSize)
            .withStreamInfo("uncompressedSize", this.uncompressedSize)
Chain the given worker with other workers to compress the content with the given compression.

@returns {GenericWorker} the new worker compressing the content.

/\*
 * @param {GenericWorker} uncompressedWorker the worker to pipe.
 * @param {Object} compression the compression object.
 * @param {Object} compressionOptions the options to use when compressing.
 * @return {GenericWorker} the new worker compressing the content.
 */

CompressedObject.createWorkerFrom = function (uncompressedWorker, compression, compressionOptions) {
    return uncompressedWorker
        .pipe(new Crc32Probe())
        .pipe(new DataLengthProbe("uncompressedSize"))
        .pipe(compression.compressWorker(compressionOptions))
        .pipe(new DataLengthProbe("compressedSize"))
        .withStreamInfo("compression", compression);
};

module.exports = CompressedObject;

var GenericWorker = require("./stream/GenericWorker");

exports.STORE = {
    magic: "\x00\x00",
    compressWorker : function (compressionOptions) {
        return new GenericWorker("STORE compression");
    },
    decompressWorker : function () {
        return new GenericWorker("STORE decompression");
    }
};

exports.DEFLATE = require('./flate');

/\*
The following functions come from pako, from pako/lib/zlib/crc32.js released under the MIT license, see pako https://github.com/nodeca/pako/

// Use ordinary array, since untyped makes no boost here
function makeTable() {
    var c, table = [];

    for(var n =0; n < 256; n++){
        c = n;
        for(var k =0; k < 8; k++){
            c = ((c&1) ? (0xEDB88320 ^ (c >>> 1)) : (c >>> 1));
        }
        table[n] = c;
    }

    return table;
}

var crcTable = makeTable();

function crc32(crc, buf, len, pos) {
    var t = crcTable, end = pos + len;

    crc = crc ^ (-1);

    for (var i = pos; i < end; i++ ) {
        crc = (crc >>> 8) ^ t[(crc ^ buf[i]) & 0xFF];
    }

    return (crc ^ (-1)); // >>> 0;
}

// That’s all for the pako functions.

/**
 * Compute the crc32 of a string.
 * This is almost the same as the function crc32, but for strings. Using the
 * same function for the two use cases leads to horrible performances.
 * @param {Number} crc the starting value of the crc.
 * @param {String} str the string to use.
 * @param {Number} len the length of the string.
 * @param {Number} pos the starting position for the crc32 computation.
 * @return {Number} the computed crc32.
 */
function crc32str(crc, str, len, pos) {

var t = crcTable, end = pos + len;

crc = crc ^ (-1);

for (var i = pos; i < end; i++) {
    crc = (crc >>> 8) ^ t[(crc ^ str.charCodeAt(i)) & 0xFF];
}

return (crc ^ (-1)); // >>> 0;
}

module.exports = function crc32wrapper(input, crc) {
    if (typeof input === "undefined" || !input.length) {
        return 0;
    }

    var isArray = utils.getTypeOf(input) !== "string";

    if(isArray) {
        return crc32(crc|0, input, input.length, 0);
    } else {
        return crc32str(crc|0, input, input.length, 0);
    }
};
/**
* Let the user use/change some implementations.
*/
module.exports = {
    Promise: ES6Promise
};

ROWSER:ES6Promise,7:[function(require,module,exports){
  'use strict';
  var USE_TYPEDARRAY = (typeof Uint8Array !== 'undefined') && (typeof Uint16Array !== 'undefined') &&
      (typeof Uint32Array !== 'undefined');

  var pako = require("pako");
  var utils = require("./utils");
  var GenericWorker = require("./stream/GenericWorker");

  var ARRAY_TYPE = USE_TYPEDARRAY ? "uint8array" : "array";

  exports.magic = ".x08\x00";

  /**
   * Create a worker that uses pako to inflate/deflate.
   * @constructor
   * @param {String} action the name of the pako function to call : either "Deflate" or "Inflate".
   * @param {Object} options the options to use when (de)compressing.
   */
  function FlateWorker(action, options) {
    GenericWorker.call(this, "FlateWorker" + action);

    this._pako = null;
    this._pakoAction = action;
    this._pakoOptions = options;
    // the `meta` object from the last chunk received
    // this allow this worker to pass around metadata
    this.meta = {};
  }

  utils.inherits(FlateWorker, GenericWorker);

  /**
   * @see GenericWorker.processChunk
   */
  FlateWorker.prototype.processChunk = function (chunk) {
    this.meta = chunk.meta;
  }
}]}
if (this._pako === null) {
    this._createPako();
}
this._pako.push(utils.transformTo(ARRAY_TYPE, chunk.data), false);
};

/**
 * @see GenericWorker.flush
 */
FlateWorker.prototype.flush = function () {
    GenericWorker.prototype.flush.call(this);
    if (this._pako === null) {
        this._createPako();
    }
    this._pako.push([], true);
};

/**
 * @see GenericWorker.cleanUp
 */
FlateWorker.prototype.cleanUp = function () {
    GenericWorker.prototype.cleanUp.call(this);
    this._pako = null;
};

/**
 * Create the _pako object.
 * TODO: lazy-loading this object isn't the best solution but it's the
 * quickest. The best solution is to lazy-load the worker list. See also the
 * issue #446.
 */
FlateWorker.prototype._createPako = function () {
    this._pako = new pako[this._pakoAction]({
        raw: true,
        level: this._pakoOptions.level || -1 // default compression
    });
    var self = this;
    this._pako.onData = function (data) {
        self.push({
            data: data,
            meta: self.meta
        });
    };
};

exports.compressWorker = function (compressionOptions) {
    return new FlateWorker("Deflate", compressionOptions);
};
exports.uncompressWorker = function () {

var decToHex = function(dec, bytes) {
  var hex = ", i;
  for (i = 0; i < bytes; i++) {
    hex += String.fromCharCode(dec & 0xff);
    dec = dec >>> 8;
  }
  return hex;
};

var generateUnixExternalFileAttr = function (unixPermissions, isDir) {
  var result = unixPermissions;
  if (!unixPermissions) {
    // I can't use octal values in strict mode, hence the hexa.
  }
};

/*
 * Transform an integer into a string in hexadecimal.
 * @private
 * @param {number} dec the number to convert.
 * @param {number} bytes the number of bytes to generate.
 * @returns {string} the result.
 */
var decToHex = function(dec, bytes) {
  var hex = ", i;
  for (i = 0; i < bytes; i++) {
    hex += String.fromCharCode(dec & 0xff);
    dec = dec >>> 8;
  }
  return hex;
};

/*
 * Generate the UNIX part of the external file attributes.
 * @param {Object} unixPermissions the unix permissions or null.
 * @param {Boolean} isDir true if the entry is a directory, false otherwise.
 * @return {Number} a 32 bit integer.
 * adapted from http://unix.stackexchange.com/questions/14705/the-zip-formats-external-file-attribute :
 * TTTTsstrwxrwxrwx0000000000ADVSHR
 * ^^^^____________________________ file type, see zipinfo.c (UNIX_*)
 * ^^^____________________________ setuid, setgid, sticky
 * ^^^^^^^^^_______________________ permissions
 * ^^^^^^^^^____ not used ?
 * ^^^^^^^ DOS attribute bits : Archive, Directory, Volume label, System file, Hidden, Read only
 */
var generateUnixExternalFileAttr = function (unixPermissions, isDir) {
  var result = unixPermissions;
  if (!unixPermissions) {
    // I can't use octal values in strict mode, hence the hexa.
  }
};
result = isDir ? 0x41fd : 0x81b4;
}
return (result & 0xFFFF) << 16;
};

/**
* Generate the DOS part of the external file attributes.
* @param {Object} dosPermissions the dos permissions or null.
* @param {Boolean} isDir true if the entry is a directory, false otherwise.
* @return {Number} a 32 bit integer.
*
* Bit 0     Read-Only
* Bit 1     Hidden
* Bit 2     System
* Bit 3     Volume Label
* Bit 4     Directory
* Bit 5     Archive
*/
var generateDosExternalFileAttr = function (dosPermissions, isDir) {

// the dir flag is already set for compatibility
return (dosPermissions || 0)  & 0x3F;
};

/**
* Generate the various parts used in the construction of the final zip file.
* @param {Object} streamInfo the hash with information about the compressed file.
* @param {Boolean} streamedContent is the content streamed ?
* @param {Boolean} streamingEnded is the stream finished ?
* @param {number} offset the current offset from the start of the zip file.
* @param {String} platform let's pretend we are this platform (change platform dependents fields)
* @param {Function} encodeFileName the function to encode the file name / comment.
* @return {Object} the zip parts.
*/
var generateZipParts = function(streamInfo, streamedContent, streamingEnded, offset, platform, encodeFileName) {
    var file = streamInfo['file'],
        compression = streamInfo['compression'],
        useCustomEncoding = encodeFileName != utf8.utf8encode,
        encodedFileName = utils.transformTo("string", encodeFileName(file.name)),
        utfEncodedFileName = utils.transformTo("string", utf8.utf8encode(file.name)),
        comment = file.comment,
        encodedComment = utils.transformTo("string", encodeFileName(comment)),
        utfEncodedComment = utils.transformTo("string", utf8.utf8encode(comment)),
        dosTime,
dosDate,
extraFields = "",
unicodePathExtraField = "",
unicodeCommentExtraField = "",
dir = file.dir,
date = file.date;

var dataInfo = {
    crc32 : 0,
    compressedSize : 0,
    uncompressedSize : 0
};

// if the content is streamed, the sizes/crc32 are only available AFTER
// the end of the stream.
if (!streamedContent || streamingEnded) {
    dataInfo.crc32 = streamInfo['crc32'];
    dataInfo.compressedSize = streamInfo['compressedSize'];
    dataInfo.uncompressedSize = streamInfo['uncompressedSize'];
}

var bitflag = 0;
if (streamedContent) {
    // Bit 3: the sizes/crc32 are set to zero in the local header.
    // The correct values are put in the data descriptor immediately
    // following the compressed data.
    bitflag |= 0x0008;
}
if (useCustomEncoding && (useUTF8ForFileName || useUTF8ForComment)) {
    // Bit 11: Language encoding flag (EFS).
    bitflag |= 0x0800;
}

var extFileAttr = 0;
var versionMadeBy = 0;
if (dir) {
    // dos or unix, we set the dos dir flag
    extFileAttr |= 0x00010;
}
if(platform === "UNIX") {
    versionMadeBy = 0x031E; // UNIX, version 3.0
    extFileAttr |= generateUnixExternalFileAttr(file.unixPermissions, dir);
} else { // DOS or other, fallback to DOS
    versionMadeBy = 0x0014; // DOS, version 2.0
    extFileAttr |= generateDosExternalFileAttr(file.dosPermissions, dir);
}
dosTime = date.getUTCHours();
dosTime = dosTime << 6;
dosTime = dosTime | date.getUTCMinutes();
dosTime = dosTime << 5;
dosTime = dosTime | date.getUTCSeconds() / 2;

dosDate = date.getUTCFullYear() - 1980;
dosDate = dosDate << 4;
dosDate = dosDate | (date.getUTCMonth() + 1);
dosDate = dosDate << 5;
dosDate = dosDate | date.getUTCDate();

if (useUTF8ForFileName) {
    // set the unicode path extra field. unzip needs at least one extra
    // field to correctly handle unicode path, so using the path is as good
    // as any other information. This could improve the situation with
    // other archive managers too.
    // This field is usually used without the utf8 flag, with a non
    // unicode path in the header (winrar, winzip). This helps (a bit)
    // with the messy Windows' default compressed folders feature but
    // breaks on p7zip which doesn't seek the unicode path extra field.
    // So for now, UTF-8 everywhere !
    unicodePathExtraField =
        // Version
        decToHex(1, 1) +
        // NameCRC32
        decToHex(crc32(encodedFileName), 4) +
        // UnicodeName
        utfEncodedFileName;

    extraFields +=
        // Info-ZIP Unicode Path Extra Field
        "\x75\x70" +
        // size
        decToHex(unicodePathExtraField.length, 2) +
        // content
        unicodePathExtraField;
}

if(useUTF8ForComment) {
    unicodeCommentExtraField =
// Version
decToHex(1, 1) +
// CommentCRC32
decToHex(crc32(encodedComment), 4) +
// UnicodeName
utfEncodedComment;

extraFields +=
// Info-ZIP Unicode Path Extra Field
"\x75\x63" +
// size
decToHex(unicodeCommentExtraField.length, 2) +
// content
unicodeCommentExtraField;
}

var header = ""

// version needed to extract
header += "\x0A\x00";
// general purpose bit flag
header += decToHex(bitflag, 2);
// compression method
header += compression.magic;
// last mod file time
header += decToHex(dosTime, 2);
// last mod file date
header += decToHex(dosDate, 2);
// crc-32
header += decToHex(dataInfo.crc32, 4);
// compressed size
header += decToHex(dataInfo.compressedSize, 4);
// uncompressed size
header += decToHex(dataInfo.uncompressedSize, 4);
// file name length
header += decToHex(encodedFileName.length, 2);
// extra field length
header += decToHex(extraFields.length, 2);

var fileRecord = signature.LOCAL_FILE_HEADER + header + encodedFileName + extraFields;

var dirRecord = signature.CENTRAL_FILE_HEADER +
    // version made by (00: DOS)
decToHex(versionMadeBy, 2) +
    // file header (common to file and central directory)
header +
    // file comment length
decToHex(encodedComment.length, 2) +
// disk number start
"\x00\x00" +
// internal file attributes TODO
"\x00\x00" +
// external file attributes
decToHex(extFileAttr, 4) +
// relative offset of local header
decToHex(offset, 4) +
// file name
encodedFileName +
// extra field
extraFields +
// file comment
encodedComment;

return {
    fileRecord: fileRecord,
    dirRecord: dirRecord
};
};

/**
 * Generate the EOCD record.
 * @param {Number} entriesCount the number of entries in the zip file.
 * @param {Number} centralDirLength the length (in bytes) of the central dir.
 * @param {Number} localDirLength the length (in bytes) of the local dir.
 * @param {String} comment the zip file comment as a binary string.
 * @param {Function} encodeFileName the function to encode the comment.
 * @return {String} the EOCD record.
 */
var generateCentralDirectoryEnd = function (entriesCount, centralDirLength, localDirLength, comment,
    encodeFileName) {
    var dirEnd = "";
    var encodedComment = utils.transformTo("string", encodeFileName(comment));

    // end of central dir signature
dirEnd = signature.CENTRAL_DIRECTORY_END +
        // number of this disk
        "\x00\x00" +
        // number of the disk with the start of the central directory
        "\x00\x00" +
        // total number of entries in the central directory on this disk
decToHex(entriesCount, 2) +
        // total number of entries in the central directory
decToHex(entriesCount, 2) +
        // size of the central directory 4 bytes
decToHex(centralDirLength, 4) +

    return {
        fileRecord: fileRecord,
        dirRecord: dirRecord
    };
// offset of start of central directory with respect to the starting disk number
decToHex(localDirLength, 4) +
// .ZIP file comment length
decToHex(encodedComment.length, 2) +
// .ZIP file comment
encodedComment;

return dirEnd;
};

/**
 * Generate data descriptors for a file entry.
 * @param {Object} streamInfo the hash generated by a worker, containing information
 * on the file entry.
 * @return {String} the data descriptors.
 */
var generateDataDescriptors = function(streamInfo) {
    var descriptor = ";
    descriptor = signature.DATA_DESCRIPTOR +
        // crc-32 4 bytes
decToHex(streamInfo['crc32'], 4) +
        // compressed size 4 bytes
decToHex(streamInfo['compressedSize'], 4) +
        // uncompressed size 4 bytes
decToHex(streamInfo['uncompressedSize'], 4);

    return descriptor;
};

/**
 * A worker to concatenate other workers to create a zip file.
 * @param {Boolean} streamFiles 'true' to stream the content of the files,
 * 'false' to accumulate it.
 * @param {String} comment the comment to use.
 * @param {String} platform the platform to use, "UNIX" or "DOS".
 * @param {Function} encodeFileName the function to encode file names and comments.
 */
function ZipFileWorker(streamFiles, comment, platform, encodeFileName) {
    GenericWorker.call(this, "ZipFileWorker");
    // The number of bytes written so far. This doesn't count accumulated chunks.
    this.bytesWritten = 0;
    // The comment of the zip file
    this.zipComment = comment;
    // The platform "generating" the zip file.
    this.zipPlatform = platform;
    // the function to encode file names and comments.
    this.encodeFileName = encodeFileName;
// Should we stream the content of the files ?
this.streamFiles = streamFiles;
// If `streamFiles` is false, we will need to accumulate the content of the
// files to calculate sizes / crc32 (and write them *before* the content).
// This boolean indicates if we are accumulating chunks (it will change a lot
// during the lifetime of this worker).
this.accumulate = false;
// The buffer receiving chunks when accumulating content.
this.contentBuffer = [];
// The list of generated directory records.
this.dirRecords = [];
// The offset (in bytes) from the beginning of the zip file for the current source.
this.currentSourceOffset = 0;
// The total number of entries in this zip file.
this.entriesCount = 0;
// the name of the file currently being added, null when handling the end of the zip file.
// Used for the emitted metadata.
this.currentFile = null;

this._sources = [];
}
utils.inherits(ZipFileWorker, GenericWorker);
/**
* @see GenericWorker.push
*/
ZipFileWorker.prototype.push = function (chunk) {
var currentFilePercent = chunk.meta.percent || 0;
var entriesCount = this.entriesCount;
var remainingFiles = this._sources.length;
if(this.accumulate) {
this.contentBuffer.push(chunk);
} else {
this.bytesWritten += chunk.data.length;
GenericWorker.prototype.push.call(this, {
data : chunk.data,
meta : {
currentFile : this.currentFile,
percent : entriesCount ? (currentFilePercent + 100 * (entriesCount - remainingFiles - 1)) / entriesCount :
100
}
});
}

Open Source Used In Finesse Software 12.6(1) 9089


/**
 * The worker started a new source (an other worker).
 * @param {Object} streamInfo the streamInfo object from the new source.
 */
ZipFileWorker.prototype.openedSource = function (streamInfo) {
    this.currentSourceOffset = this.bytesWritten;
    this.currentFile = streamInfo['file'].name;

    var streamedContent = this.streamFiles && !streamInfo['file'].dir;

    // don't stream folders (because they don't have any content)
    if(streamedContent) {
        var record = generateZipParts(streamInfo, streamedContent, false, this.currentSourceOffset, this.zipPlatform,
        this.encodeFileName);
        this.push({
            data : record.fileRecord,
            meta : {percent:0}
        });
    } else {
        // we need to wait for the whole file before pushing anything
        this.accumulate = true;
    }
};

/**
 * The worker finished a source (an other worker).
 * @param {Object} streamInfo the streamInfo object from the finished source.
 */
ZipFileWorker.prototype.closedSource = function (streamInfo) {
    this.accumulate = false;
    var streamedContent = this.streamFiles && !streamInfo['file'].dir;
    var record = generateZipParts(streamInfo, streamedContent, true, this.currentSourceOffset, this.zipPlatform,
    this.encodeFileName);

    this.dirRecords.push(record.dirRecord);
    if(streamedContent) {
        // after the streamed file, we put data descriptors
        this.push({
            data : generateDataDescriptors(streamInfo),
            meta : {percent:100}
        });
    } else {
        // the content wasn't streamed, we need to push everything now
        // first the file record, then the content
        this.push({
            data : record.fileRecord,
<meta : {percent:0}

});
while(this.contentBuffer.length) {
    this.push(this.contentBuffer.shift());
}
}
this.currentFile = null;
};

/**
 * @see GenericWorker.flush
 */
ZipFileWorker.prototype.flush = function () {

    var localDirLength = this.bytesWritten;
    for(var i = 0; i < this.dirRecords.length; i++) {
        this.push(
            {data : this.dirRecords[i],
             meta : {percent:100}
            });
    }
    var centralDirLength = this.bytesWritten - localDirLength;

    var dirEnd = generateCentralDirectoryEnd(this.dirRecords.length, centralDirLength, localDirLength, this.zipComment, this.encodeFileName);

    this.push(
        {data : dirEnd,
         meta : {percent:100}
        });

};

/**
 * Prepare the next source to be read.
 */
ZipFileWorker.prototype.prepareNextSource = function () {
    this.previous = this._sources.shift();
    this.openedSource(this.previous.streamInfo);
    if (this.isPaused) {
        this.previous.pause();
    } else {
        this.previous.resume();
    }
};

/**
 * @see GenericWorker.registerPrevious
 */
ZipFileWorker.prototype.registerPrevious = function (previous) {
    this._sources.push(previous);
    var self = this;

    previous.on('data', function (chunk) {
        self.processChunk(chunk);
    });
    previous.on('end', function () {
        self.closedSource(self.previous.streamInfo);
        if(self._sources.length) {
            self.prepareNextSource();
        } else {
            self.end();
        }
    });
    previous.on('error', function (e) {
        self.error(e);
    });
    return this;
};

/**
 * @see GenericWorker.resume
 */
ZipFileWorker.prototype.resume = function () {
    if(!GenericWorker.prototype.resume.call(this)) {
        return false;
    }
    if (!this.previous && this._sources.length) {
        this.prepareNextSource();
        return true;
    }
    if (!this.previous && !this._sources.length && !this.generatedError) {
        this.end();
        return true;
    }
};

/**
 * @see GenericWorker.error
 */
ZipFileWorker.prototype.error = function (e) {
    var sources = this._sources;
    if(!GenericWorker.prototype.error.call(this, e)) {
        return false;
    }
    for(var i = 0; i < sources.length; i++) {

try {
    sources[i].error(e);
} catch(e) {
    // the `error` exploded, nothing to do
}

return true;
};

/**
 * @see GenericWorker.lock
 */
ZipFileWorker.prototype.lock = function () {
    GenericWorker.prototype.lock.call(this);
    var sources = this._sources;
    for(var i = 0; i < sources.length; i++) {
        sources[i].lock();
    }
};

module.exports = ZipFileWorker;

/**
 * Find the compression to use.
 * @param {String} fileCompression the compression defined at the file level, if any.
 * @param {String} zipCompression the compression defined at the load() level.
 * @return {Object} the compression object to use.
 */
var getCompression = function (fileCompression, zipCompression) {

    var compressionName = fileCompression || zipCompression;
    var compression = compressions[compressionName];
    if (!compression) {
        throw new Error(compressionName + " is not a valid compression method!");
    }
    return compression;
};

/**
 * Create a worker to generate a zip file.
 * @param {JSZip} zip the JSZip instance at the right root level.
 */
exports.generateWorker = function (zip, options, comment) {
    var zipFileWorker = new ZipFileWorker(options.streamFiles, comment, options.platform,
        options.encodeFileName);
    var entriesCount = 0;
    try {
        zip.forEach(function (relativePath, file) {
            entriesCount++;
            var compression = getCompression(file.options.compression, options.compression);
            var compressionOptions = file.options.compressionOptions || options.compressionOptions || {}; 
            var dir = file.dir, date = file.date;
            file._compressWorker(compression, compressionOptions)
                .withStreamInfo("file", { 
                    name : relativePath,
                    dir : dir,
                    date : date,
                    comment : file.comment || ",",
                    unixPermissions : file.unixPermissions,
                    dosPermissions : file.dosPermissions
                })
                .pipe(zipFileWorker);
        });
        zipFileWorker.entriesCount = entriesCount;
    } catch (e) {
        zipFileWorker.error(e);
    }

    return zipFileWorker;
};
if(arguments.length) {
    throw new Error("The constructor with parameters has been removed in JSZip 3.0, please check the upgrade
guide.");
}

// object containing the files :
// {
//   "folder/" : {...},
//   "folder/data.txt" : {...}
// }
this.files = {};

this.comment = null;

// Where we are in the hierarchy
this.root = "";
this.clone = function() {
    var newObj = new JSZip();
    for (var i in this) {
        if (typeof this[i] !== "function") {
            newObj[i] = this[i];
        }
    }
    return newObj;
};

JSZip.prototype = require('./object');
JSZip.prototype.loadAsync = require('./load');
JSZip.support = require('./support');
JSZip.defaults = require('./defaults');

// TODO find a better way to handle this version,
// a require('package.json').version doesn't work with webpack, see #327
JSZip.version = "3.2.0";

JSZip.loadAsync = function (content, options) {
    return new JSZip().loadAsync(content, options);
};

JSZip.external = require("./external");
module.exports = JSZip;
var ZipEntries = require('./zipEntries');
var Crc32Probe = require('./stream/Crc32Probe');
var nodejsUtils = require("/nodejsUtils");

/**
 * Check the CRC32 of an entry.
 * @param {ZipEntry} zipEntry the zip entry to check.
 * @return {Promise} the result.
 */
function checkEntryCRC32(zipEntry) {
  return new external.Promise(function (resolve, reject) {
    var worker = zipEntry.decompressed.getContentWorker().pipe(new Crc32Probe());
    worker.on("error", function (e) {
      reject(e);
    }).on("end", function () {
      if (worker.streamInfo.crc32 !== zipEntry.decompressed.crc32) {
        reject(new Error("Corrupted zip : CRC32 mismatch"));
      } else {
        resolve();
      }
    }).resume();
  });
}

module.exports = function(data, options) {
  var zip = this;
  options = utils.extend(options || {}, {
    base64: false,
    checkCRC32: false,
    optimizedBinaryString: false,
    createFolders: false,
    decodeFileName: utf8.utf8decode
  });

  if (nodejsUtils.isNode && nodejsUtils.isStream(data)) {
    return external.Promise.reject(new Error("JSZip can't accept a stream when loading a zip file.");
  }

  return utils.prepareContent("the loaded zip file", data, true, options.optimizedBinaryString, options.base64)
    .then(function(data) {
      var zipEntries = new ZipEntries(options);
      zipEntries.load(data);
      return zipEntries;
    }).then(function checkCRC32(zipEntries) {
      var promises = [external.Promise.resolve(zipEntries)];
      var files = zipEntries.files;
if (options.checkCRC32) {
  for (var i = 0; i < files.length; i++) {
    promises.push(checkEntryCRC32(files[i]));
  }
}
return external.Promise.all(promises);
});then(function addFiles(results) {
  var zipEntries = results.shift();
  var files = zipEntries.files;
  for (var i = 0; i < files.length; i++) {
    var input = files[i];
    zip.file(input.fileNameStr, input.decompressed, {
      binary: true,
      optimizedBinaryString: true,
      date: input.date,
      dir: input.dir,
      comment: input.fileCommentStr.length ? input.fileCommentStr : null,
      unixPermissions: input.unixPermissions,
      dosPermissions: input.dosPermissions,
      createFolders: options.createFolders
    });
  }
  if (zipEntries.zipComment.length) {
    zip.comment = zipEntries.zipComment;
  }

  return zip;
});

var exports = require('..\..\utils');
var GenericWorker = require('..\..\stream\GenericWorker');

/**
 * A worker that uses a nodejs stream as source.
 * @constructor
 * @param {String} filename the name of the file entry for this stream.
 * @param {Readable} stream the nodejs stream.
 */
function NodejsStreamInputAdapter(filename, stream) {
  GenericWorker.call(this, "Nodejs stream input adapter for " + filename);
  this._upstreamEnded = false;
  this._bindStream(stream);
}
utils.inherits(NodejsStreamInputAdapter, GenericWorker);

/**
* Prepare the stream and bind the callbacks on it.
* Do this ASAP on node 0.10 ! A lazy binding doesn't always work.
* @param {Stream} stream the nodejs stream to use.
*/
NodejsStreamInputAdapter.prototype._bindStream = function (stream) {
  var self = this;
  this._stream = stream;
  stream.pause();

  stream
    .on("data", function (chunk) {
      self.push({
        data: chunk,
        meta: {
          percent: 0
        }
      });
    })
    .on("error", function (e) {
      if (self.isPaused) {
        this.generatedError = e;
      } else {
        self.error(e);
      }
    })
    .on("end", function () {
      if (self.isPaused) {
        self._upstreamEnded = true;
      } else {
        self.end();
      }
    });
}
NodejsStreamInputAdapter.prototype.pause = function () {
  if (!GenericWorker.prototype.pause.call(this)) {
    return false;
  }
  this._stream.pause();
  return true;
};
NodejsStreamInputAdapter.prototype.resume = function () {
  if (!GenericWorker.prototype.resume.call(this)) {
    return false;
  }
if(this._upstreamEnded) {
    this.end();
} else {
    this._stream.resume();
}

return true;
};

module.exports = NodejsStreamInputAdapter;

},{"./stream/GenericWorker":28,"./utils":32}],13:[function(require,module,exports){
'use strict';

var Readable = require('readable-stream').Readable;

var utils = require('../utils');

utils.inherits(NodejsStreamOutputAdapter, Readable);

/**
 * A nodejs stream using a worker as source.
 * @see the SourceWrapper in http://nodejs.org/api/stream.html
 * @constructor
 * @param {StreamHelper} helper the helper wrapping the worker
 * @param {Object} options the nodejs stream options
 * @param {Function} updateCb the update callback.
 */

function NodejsStreamOutputAdapter(helper, options, updateCb) {
    Readable.call(this, options);
    this._helper = helper;
    var self = this;
    helper.on("data", function (data, meta) {
        if (!self.push(data)) {
            self._helper.pause();
        }
        if(updateCb) {
            updateCb(meta);
        }
        if(updateCb) {
            updateCb(meta);
        }
    })
    .on("error", function(e) {
        self.emit('error', e);
    })
    .on("end", function () {
        self.push(null);
    });
}

var Readable = require('readable-stream').Readable;

var utils = require('../utils');

utils.inherits(NodejsStreamOutputAdapter, Readable);

/*
 * A nodejs stream using a worker as source.
 * @see the SourceWrapper in http://nodejs.org/api/stream.html
 */

function NodejsStreamOutputAdapter(helper, options, updateCb) {
    Readable.call(this, options);
    this._helper = helper;
    var self = this;
    helper.on("data", function (data, meta) {
        if (!self.push(data)) {
            self._helper.pause();
        }
        if(updateCb) {
            updateCb(meta);
        }
        if(updateCb) {
            updateCb(meta);
        }
    })
    .on("error", function(e) {
        self.emit('error', e);
    })
    .on("end", function () {
        self.push(null);
    });
}
NodejsStreamOutputAdapter.prototype._read = function() {
  this._helper.resume();
};

module.exports = NodejsStreamOutputAdapter;

'"./utils":32,"readable-stream":16}],14:[function(require,module,exports){
 'use strict';

    module.exports = {

    /**
     * True if this is running in Nodejs, will be undefined in a browser.
     * In a browser, browserify won't include this file and the whole module
     * will be resolved an empty object.
     */
    isNode : typeof Buffer !== "undefined",

    /**
     * Create a new nodejs Buffer from an existing content.
     * @param {Object} data the data to pass to the constructor.
     * @param {String} encoding the encoding to use.
     * @return {Buffer} a new Buffer.
     */
    newBufferFrom: function(data, encoding) {
      if (Buffer.from && Buffer.from !== Uint8Array.from) {
        return Buffer.from(data, encoding);
      } else {
        if (typeof data === "number") {
          // Safeguard for old Node.js versions. On newer versions,
          // Buffer.from(number) / Buffer(number, encoding) already throw.
          throw new Error("The \"data\" argument must not be a number");
        }
        return new Buffer(data, encoding);
      }
    },

    /**
     * Create a new nodejs Buffer with the specified size.
     * @param {Integer} size the size of the buffer.
     * @return {Buffer} a new Buffer.
     */
    allocBuffer: function (size) {
      if (Buffer.alloc) {
        return Buffer.alloc(size);
      } else {
        var buf = new Buffer(size);
        buf.fill(0);
        return buf;
      }
    },

}
/**
 * Find out if an object is a Buffer.
 * @param {Object} b the object to test.
 * @return {Boolean} true if the object is a Buffer, false otherwise.
 */

isBuffer : function(b){
    return Buffer.isBuffer(b);
},

isStream : function (obj) {
    return obj &&
        typeof obj.on === "function" &&
        typeof obj.pause === "function" &&
        typeof obj.resume === "function";
}
};

*/

/*
 * Add a file in the current folder.
 * @private
 * @param {String} name the name of the file
 * @param {String|ArrayBuffer|Uint8Array|Buffer} data the data of the file
 * @param {Object} originalOptions the options of the file
 * @return {Object} the new file.
 */
var fileAdd = function(name, data, originalOptions) {
    // be sure sub folders exist
    var dataType = utils.getTypeOf(data),
        parent:
    
    /*
     * Correct options.
     */
var o = utils.extend(originalOptions || {}, defaults);
o.date = o.date || new Date();
if (o.compression !== null) {
    o.compression = o.compression.toUpperCase();
}

if (typeof o.unixPermissions === "string") {
    o.unixPermissions = parseInt(o.unixPermissions, 8);
}

// UNX_IFDIR  0040000 see zipinfo.c
if (o.unixPermissions & (o.unixPermissions & 0x4000)) {
    o.dir = true;
}

// Bit 4 Directory
if (o.dosPermissions & (o.dosPermissions & 0x0010)) {
    o.dir = true;
}

if (o.dir) {
    name = forceTrailingSlash(name);
}
if (o.createFolders & (parent = parentFolder(name))) {
    folderAdd.call(this, parent, true);
}

var isUnicodeString = dataType === "string" & o.binary === false & o.base64 === false;
if (!originalOptions || typeof originalOptions.binary === "undefined") {
    o.binary = !isUnicodeString;
}

var isCompressedEmpty = (data instanceof CompressedObject) & data.uncompressedSize === 0;

if (isCompressedEmpty || o.dir || data.length === 0) {
    o.base64 = false;
    o.binary = true;
    data = "";
    o.compression = "STORE";
    dataType = "string";
}

/*
 * Convert content to fit.
 */
var zipObjectContent = null;
if (data instanceof CompressedObject || data instanceof GenericWorker) {
    zipObjectContent = data;
} else if (nodejsUtils.isNode && nodejsUtils.isStream(data)) {
    zipObjectContent = new NodejsStreamInputAdapter(name, data);
} else {
    zipObjectContent = utils.prepareContent(name, data, o.binary, o.optimizedBinaryString, o.base64);
}

var object = new ZipObject(name, zipObjectContent, o);
this.files[name] = object;

/*
TODO: we can't throw an exception because we have async promises
we can have a promise of a Date() for example but returning a
promise is useless because file(name, data) returns the JSZip
object for chaining. Should we break that to allow the user
to catch the error ?
*/

return external.Promise.resolve(zipObjectContent)
    .then(function () {
        return object;
    });

/**
 * Find the parent folder of the path.
 * @private
 * @param {string} path the path to use
 * @return {string} the parent folder, or ""
 */
var parentFolder = function (path) {
    if (path.slice(-1) === '/') {
        path = path.substring(0, path.length - 1);
    }
    var lastSlash = path.lastIndexOf('/');
    return (lastSlash > 0) ? path.substring(0, lastSlash) : "";
};

/**
 * Returns the path with a slash at the end.
 * @private
 * @param {string} path the path to check.
 * @return {string} the path with a trailing slash.
 */
var forceTrailingSlash = function(path) {
    // Check the name ends with a /
    if (path.slice(-1) !== "/") {
        // Check the name ends with a /
    }
path += "/"; // IE doesn't like substr(-1)
}
return path;
;
/**
* Add a (sub) folder in the current folder.
* @private
* @param {string} name the folder's name
* @param {boolean=} [createFolders] If true, automatically create sub
*  folders. Defaults to false.
* @return {Object} the new folder.
*/
var folderAdd = function(name, createFolders) {
  createFolders = (typeof createFolders !== 'undefined') ? createFolders : defaults.createFolders;

  name = forceTrailingSlash(name);

  // Does this folder already exist?
  if (!this.files[name]) {
    fileAdd.call(this, name, null, {
      dir: true,
      createFolders: createFolders
    });
  }
  return this.files[name];
};

/**
* Cross-window, cross-Node-context regular expression detection
* @param  {Object}  object Anything
* @return {Boolean}        true if the object is a regular expression,
* false otherwise
*/
function isRegExp(object) {
  return Object.prototype.toString.call(object) === '[object RegExp]';
}

// return the actual prototype of JSZip
var out = {
  /**
   * @see loadAsync
   */
  load: function() {
    throw new Error("This method has been removed in JSZip 3.0, please check the upgrade guide.");
  },
}
/**
 * Call a callback function for each entry at this folder level.
 * @param {Function} cb the callback function:
 * function (relativePath, file) {...}
 * It takes 2 arguments : the relative path and the file.
 */
forEach: function(cb) {
  var filename, relativePath, file;
  for (filename in this.files) {
    if (!this.files.hasOwnProperty(filename)) {
      continue;
    }
    file = this.files[filename];
    relativePath = filename.slice(this.root.length, filename.length);
    if (relativePath && filename.slice(0, this.root.length) === this.root) { // the file is in the current root
      cb(relativePath, file); // TODO reverse the parameters ? need to be clean AND consistent with the filter
    }
  }
},

/**
 * Filter nested files/folders with the specified function.
 * @param {Function} search the predicate to use :
 * function (relativePath, file) {...}
 * It takes 2 arguments : the relative path and the file.
 * @return {Array} An array of matching elements.
 */
filter: function(search) {
  var result = [];
  this.forEach(function (relativePath, entry) {
    if (search(relativePath, entry)) { // the file matches the function
      result.push(entry);
    }
  });
  return result;
},

/**
 * Add a file to the zip file, or search a file.
 * @param {string|RegExp} name The name of the file to add (if data is defined),
 * the name of the file to find (if no data) or a regex to match files.
 * @param {String|ArrayBuffer|Uint8Array|Buffer} data  The file data, either raw or base64 encoded
 * @param {Object} o     File options
 * @return {JSZip|Object|Array} this JSZip object (when adding a file),
 * a file (when searching by string) or an array of files (when searching by regex).
 */
file: function(name, data, o) {
  if (arguments.length === 1) {
    if (isRegExp(name)) {
      var regexp = name;
      return this.filter(function(relativePath, file) {
        return !file.dir && regexp.test(relativePath);
      });
    }
    else { // text
      var obj = this.files[this.root + name];
      if (obj && !obj.dir) {
        return obj;
      } else {
        return null;
      }
    }
  } else { // more than one argument : we have data !
    name = this.root + name;
    fileAdd.call(this, name, data, o);
  }
  return this;
},

/**
 * Add a directory to the zip file, or search.
 * @param   {String|RegExp} arg The name of the directory to add, or a regex to search folders.
 * @return  {JSZip} an object with the new directory as the root, or an array containing matching folders.
 */
folder: function(arg) {
  if (!arg) {
    return this;
  }
  if (isRegExp(arg)) {
    return this.filter(function(relativePath, file) {
      return file.dir && arg.test(relativePath);
    });
  }
  // else, name is a new folder
  var name = this.root + arg;
  var newFolder = folderAdd.call(this, name);
  // Allow chaining by returning a new object with this folder as the root
  var ret = this.clone();
  ret.root = newFolder.name;
  return ret;
/**
 * Delete a file, or a directory and all sub-files, from the zip
 * @param {string} name the name of the file to delete
 * @return {JSZip} this JSZip object
 */
remove: function(name) {
  name = this.root + name;
  var file = this.files[name];
  if (!file) {
    // Look for any folders
    if (name.slice(-1) !== "/") {
      name += "/";
    }
    file = this.files[name];
  }
  if (file && !file.dir) {
    // file
    delete this.files[name];
  } else {
    // maybe a folder, delete recursively
    var kids = this.filter(function(relativePath, file) {
      return file.name.slice(0, name.length) === name;
    });
    for (var i = 0; i < kids.length; i++) {
      delete this.files[kids[i].name];
    }
  }
  return this;
},
/**
 * Generate the complete zip file
 * @param {Object} options the options to generate the zip file :
 * - compression, “STORE” by default.
 * - type, “base64” by default. Values are : string, base64, uint8array, arraybuffer, blob.
 * @return {String|Uint8Array|ArrayBuffer|Buffer|Blob} the zip file
 */
generate: function(options) {
  throw new Error("This method has been removed in JSZip 3.0, please check the upgrade guide.");
},
/**
 * Generate the complete zip file as an internal stream.
 * @param {Object} options the options to generate the zip file :
 */
* - compression, "STORE" by default.
* - type, "base64" by default. Values are : string, base64, uint8array, arraybuffer, blob.
* @return {StreamHelper} the streamed zip file.
*/
generateInternalStream: function(options) {
  var worker, opts = {};
  try {
    opts = utils.extend(options || {}, { 
      streamFiles: false,
      compression: "STORE",
      compressionOptions : null,
      type: "",
      platform: "DOS",
      comment: null,
      mimeType: 'application/zip',
      encodeFileName: utf8.utf8encode
    });

    opts.type = opts.type.toLowerCase();
    opts.compression = opts.compression.toUpperCase();

    // "binarystring" is preferred but the internals use "string".
    if(opts.type === "binarystring") {
      opts.type = "string";
    }

    if (!opts.type) {
      throw new Error("No output type specified.");
    }

    utils.checkSupport(opts.type);

    // accept nodejs `process.platform`
    if( 
      opts.platform === 'darwin' ||
      opts.platform === 'freebsd' ||
      opts.platform === 'linux' ||
      opts.platform === 'sunos'
    ) { 
      opts.platform = "UNIX";
    }
    if (opts.platform === 'win32') { 
      opts.platform = "DOS";
    }

    var comment = opts.comment || this.comment || "";
    worker = generate.generateWorker(this, opts, comment);
  } catch (e) { 

worker = new GenericWorker("error");
worker.error(e);
}
return new StreamHelper(worker, opts.type || "string", opts.mimeType);

/**
 * Generate the complete zip file asynchronously.
 * @see generateInternalStream
 */
generateAsync: function(options, onUpdate) {
  return this.generateInternalStream(options).accumulate(onUpdate);
},

/**
 * Generate the complete zip file asynchronously.
 * @see generateInternalStream
 */
generateNodeStream: function(options, onUpdate) {
  options = options || {};
  if (!options.type) {
    options.type = "nodebuffer";
  }
  return this.generateInternalStream(options).toNodejsStream(onUpdate);
}

module.exports = out;

/*
* This file is used by module bundlers (browserify/webpack/etc) when
* including a stream implementation. We use "readable-stream" to get a
* consistent behavior between nodejs versions but bundlers often have a shim
* for "stream". Using this shim greatly improve the compatibility and greatly
* reduce the final size of the bundle (only one stream implementation, not
* two).
*/
module.exports = require("stream");

function ArrayReader(data) {
  DataReader.call(this, data);
  for(var i = 0; i < this.data.length; i++) {
    data[i] = data[i] & 0xFF;
  }
}
utils.inherits(ArrayReader, DataReader);
/**
 * @see DataReader.byteAt
 */
ArrayReader.prototype.byteAt = function(i) {
    return this.data[this.zero + i];
};
/**
 * @see DataReader.lastIndexOfSignature
 */
ArrayReader.prototype.lastIndexOfSignature = function(sig) {
    var sig0 = sig.charCodeAt(0),
        sig1 = sig.charCodeAt(1),
        sig2 = sig.charCodeAt(2),
        sig3 = sig.charCodeAt(3);
    for (var i = this.length - 4; i >= 0; --i) {
        if (this.data[i] === sig0 && this.data[i + 1] === sig1 && this.data[i + 2] === sig2 && this.data[i + 3] === sig3)
            return i - this.zero;
    }
    return -1;
};
/**
 * @see DataReader.readAndCheckSignature
 */
ArrayReader.prototype.readAndCheckSignature = function(sig) {
    var sig0 = sig.charCodeAt(0),
        sig1 = sig.charCodeAt(1),
        sig2 = sig.charCodeAt(2),
        sig3 = sig.charCodeAt(3),
        data = this.readData(4);
    return sig0 === data[0] && sig1 === data[1] && sig2 === data[2] && sig3 === data[3];
};
/**
 * @see DataReader.readData
 */
ArrayReader.prototype.readData = function(size) {
    this.checkOffset(size);
    if (size === 0) {
        return [];
    }
    var result = this.data.slice(this.zero + this.index, this.zero + this.index + size);
    this.index += size;
    return result;
`module.exports = ArrayReader;`
this.setIndex(this.index + n);
},
/**
 * Get the byte at the specified index.
 * @param {number} i the index to use.
 * @return {number} a byte.
 */
byteAt: function(i) {
  // see implementations
},
/**
 * Get the next number with a given byte size.
 * @param {number} size the number of bytes to read.
 * @return {number} the corresponding number.
 */
readInt: function(size) {
  var result = 0,
      i;
  this.checkOffset(size);
  for (i = this.index + size - 1; i >= this.index; i--) {
    result = (result << 8) + this.byteAt(i);
  }
  this.index += size;
  return result;
},
/**
 * Get the next string with a given byte size.
 * @param {number} size the number of bytes to read.
 * @return {string} the corresponding string.
 */
readString: function(size) {
  return utils.transformTo("string", this.readData(size));
},
/**
 * Get raw data without conversion, <size> bytes.
 * @param {number} size the number of bytes to read.
 * @return {Object} the raw data, implementation specific.
 */
readData: function(size) {
  // see implementations
},
/**
 * Find the last occurrence of a zip signature (4 bytes).
 * @param {string} sig the signature to find.
 * @return {number} the index of the last occurrence, -1 if not found.
 */
lastIndexOfSignature: function(sig) {
  // see implementations
}
readAndCheckSignature: function(sig) {
    // see implementations
},

readDate: function() {
    var dostime = this.readInt(4);
    return new Date(Date.UTC((dostime >> 25) & 0x7f) + 1980, // year
        ((dostime >> 21) & 0x0f) - 1, // month
        (dostime >> 16) & 0x1f, // day
        (dostime >> 11) & 0x1f, // hour
        (dostime >> 5) & 0x3f, // minute
        (dostime & 0x1f) << 1)); // second
}
};

module.exports = DataReader;

function NodeBufferReader(data) {
    Uint8ArrayReader.call(this, data);
}

NodeBufferReader.prototype.readData = function(size) {
    this.checkOffset(size);
    var result = this.data.slice(this.zero + this.index, this.zero + this.index + size);
    this.index += size;
    return result;
};

module.exports = NodeBufferReader;
'use strict';
var DataReader = require('./DataReader');
var utils = require('../.utils');

function StringReader(data) {
    DataReader.call(this, data);
}
utils.inherits(StringReader, DataReader);
/**
* @see DataReader.byteAt
*/
StringReader.prototype.byteAt = function(i) {
    return this.data.charCodeAt(this.zero + i);
};
/**
* @see DataReader.lastIndexOfSignature
*/
StringReader.prototype.lastIndexOfSignature = function(sig) {
    return this.data.lastIndexOf(sig) - this.zero;
};
/**
* @see DataReader.readAndCheckSignature
*/
StringReader.prototype.readAndCheckSignature = function (sig) {
    var data = this.readData(4);  
    return sig === data;
};
/**
* @see DataReader.readData
*/
StringReader.prototype.readData = function(size) {
    this.checkOffset(size);
    // this will work because the constructor applied the "& 0xff" mask.
    var result = this.data.slice(this.zero + this.index, this.zero + this.index + size);
    this.index += size;
    return result;
};
module.exports = StringReader;

'/.utils":32,"/DataReader":18}}],21:[function(require,module,exports){
'use strict';
var ArrayReader = require('./ArrayReader');
var utils = require('../.utils');

function Uint8ArrayReader(data) {
    ArrayReader.call(this, data);
}
utils.inherits(Uint8ArrayReader, ArrayReader);
/**
 * @see DataReader.readData
 */
Uint8ArrayReader.prototype.readData = function(size) {
  this.checkOffset(size);
  if (size === 0) {
    // in IE10, when using subarray(idx, idx), we get the array [0x00] instead of [].
    return new Uint8Array(0);
  }
  var result = this.data.subarray(this.zero + this.index, this.zero + this.index + size);
  this.index += size;
  return result;
};
module.exports = Uint8ArrayReader;

},["./utils":32,"./ArrayReader":17]},22:[function(require,module,exports){
    'use strict';

    var utils = require('./utils');
    var support = require('./support');
    var ArrayReader = require('./ArrayReader');
    var StringReader = require('./StringReader');
    var NodeBufferReader = require('./NodeBufferReader');
    var Uint8ArrayReader = require('./Uint8ArrayReader');

    /**
     * Create a reader adapted to the data.
     * @param {String|ArrayBuffer|Uint8Array|Buffer} data the data to read.
     * @return {DataReader} the data reader.
     */
    module.exports = function (data) {
      var type = utils.getTypeOf(data);
      utils.checkSupport(type);
      if (type === 'string' && !support.uint8array) {
        return new StringReader(data);
      }
      if (type === 'nodebuffer') {
        return new NodeBufferReader(data);
      }
      if (support.uint8array) {
        return new Uint8ArrayReader(utils.transformTo('uint8array', data));
      }
      return new ArrayReader(utils.transformTo('array', data));
    };
},["./support":30,"./utils":32,"./ArrayReader":17,"./NodeBufferReader":19,"./StringReader":20,"./Uint8ArrayReader":21]}],23:[function(require,module,exports){
    'use strict';
exports.LOCAL_FILE_HEADER = "PK\x03\x04";
exports.CENTRAL_FILE_HEADER = "PK\x01\x02";
exports.CENTRAL_DIRECTORY_END = "PK\x05\x06";
exports.ZIP64_CENTRAL_DIRECTORY_LOCATOR = "PK\x06\x07";
exports.ZIP64_CENTRAL_DIRECTORY_END = "PK\x06\x06";
exports.DATA_DESCRIPTOR = "PK\x07\x08";

},{}],24:[function(require,module,exports){
'use strict';

var GenericWorker = require('./GenericWorker');
var utils = require('./../utils');

/**
 * A worker which convert chunks to a specified type.
 * @constructor
 * @param {String} destType the destination type.
 */
function ConvertWorker(destType) {
  GenericWorker.call(this, "ConvertWorker to " + destType);
  this.destType = destType;
}
utils.inherits(ConvertWorker, GenericWorker);

/**
 * @see GenericWorker.processChunk
 */
ConvertWorker.prototype.processChunk = function (chunk) {
  this.push({
    data : utils.transformTo(this.destType, chunk.data),
    meta : chunk.meta
  });
};
module.exports = ConvertWorker;

},{"./utils":32,`./GenericWorker":28}],25:[function(require,module,exports){
'use strict';

var GenericWorker = require('./GenericWorker');
var crc32 = require('./../crc32');
var utils = require('./../utils');

/**
 * A worker which calculate the crc32 of the data flowing through.
 * @constructor
 */
function Crc32Probe() {
  GenericWorker.call(this, "Crc32Probe");
}
this.withStreamInfo("crc32", 0);
}
utils.inherits(Crc32Probe, GenericWorker);

/**
 * @see GenericWorker.processChunk
 */
Crc32Probe.prototype.processChunk = function (chunk) {
  this.streamInfo.crc32 = crc32(chunk.data, this.streamInfo.crc32 || 0);
  this.push(chunk);
};
module.exports = Crc32Probe;

/**
 * @see GenericWorker.processChunk
 */
DataLengthProbe.prototype.processChunk = function (chunk) {
  if(chunk) {
    var length = this.streamInfo[this.propName] || 0;
    this.streamInfo[this.propName] = length + chunk.data.length;
  }
  GenericWorker.prototype.processChunk.call(this, chunk);
};
module.exports = DataLengthProbe;

var utils = require('../utils');
var GenericWorker = require('./GenericWorker');

function DataLengthProbe(propName) {
  GenericWorker.call(this, "DataLengthProbe for " + propName);
  this.propName = propName;
  this.withStreamInfo(propName, 0);
}
util.inherits(DataLengthProbe, GenericWorker);

var utils = require('../utils');
var GenericWorker = require('./GenericWorker');
var GenericWorker = require('./GenericWorker');

// the size of the generated chunks
// TODO expose this as a public variable
var DEFAULT_BLOCK_SIZE = 16 * 1024;

/**
 * A worker that reads a content and emits chunks.
 * @constructor
 * @param {Promise} dataP the promise of the data to split
 */
function DataWorker(dataP) {
  GenericWorker.call(this, "DataWorker");
  var self = this;
  this.dataIsReady = false;
  this.index = 0;
  this.max = 0;
  this.data = null;
  this.type = "";

  this._tickScheduled = false;

  dataP.then(function (data) {
    self.dataIsReady = true;
    self.data = data;
    self.max = data && data.length || 0;
    self.type = utils.getTypeOf(data);
    if(!self.isPaused) {
      self._tickAndRepeat();
    }
  }, function (e) {
    self.error(e);
  });
}

utils.inherits(DataWorker, GenericWorker);

/**
 * @see GenericWorker.cleanUp
 */
DataWorker.prototype.cleanUp = function () {
  GenericWorker.prototype.cleanUp.call(this);
  this.data = null;
};

/**
 * @see GenericWorker.resume
 */
DataWorker.prototype.resume = function () {
  if (!GenericWorker.prototype.resume.call(this)) {
    return false;
  }

  if (!this._tickScheduled && this.dataIsReady) {
    this._tickScheduled = true;
    utils.delay(this._tickAndRepeat, [], this);
  }
  return true;
};

/**
 * Trigger a tick a schedule an other call to this function.
 */
DataWorker.prototype._tickAndRepeat = function () {
  this._tickScheduled = false;
  if (this.isPaused || this.isFinished) {
    return;
  }
  this._tick();
  if (!this.isFinished) {
    utils.delay(this._tickAndRepeat, [], this);
    this._tickScheduled = true;
  }
};

/**
 * Read and push a chunk.
 */
DataWorker.prototype._tick = function () {
  if (this.isPaused || this.isFinished) {
    return false;
  }

  var size = DEFAULT_BLOCK_SIZE;
  var data = null, nextIndex = Math.min(this.max, this.index + size);
  if (this.index >= this.max) {
    // EOF
    return this.end();
  } else {
    switch (this.type) {
      case "string":
        data = this.data.substring(this.index, nextIndex);
        break;
      case "uint8array":
        data = this.data.subarray(this.index, nextIndex);
  }
break;
case "array":
case "nodebuffer":
    data = this.data.slice(this.index, nextIndex);
break;
}
this.index = nextIndex;
return this.push(
    {data : data,
     meta : {
            percent : this.max ? this.index / this.max * 100 : 0
        }
    });
}

module.exports = DataWorker;

/**
 * A worker that does nothing but passing chunks to the next one. This is like
 * a nodejs stream but with some differences. On the good side :
 * - it works on IE 6-9 without any issue / polyfill
 * - it weights less than the full dependencies bundled with browserify
 * - it forwards errors (no need to declare an error handler EVERYWHERE)
 * *
 * A chunk is an object with 2 attributes : `meta` and `data`. The former is an
 * object containing anything (`percent` for example), see each worker for more
 * details. The latter is the real data (String, Uint8Array, etc).
 * *
 * @constructor
 * @param {String} name the name of the stream (mainly used for debugging purposes)
 */
function GenericWorker(name) {
    // the name of the worker
    this.name = name || "default";
    // an object containing metadata about the workers chain
    this.streamInfo = {};
    // an error which happened when the worker was paused
    this.generatedError = null;
    // an object containing metadata to be merged by this worker into the general metadata
    this.extraStreamInfo = {};
    // true if the stream is paused (and should not do anything), false otherwise
    this.isPaused = true;
    // true if the stream is finished (and should not do anything), false otherwise
    this.isFinished = false;
// true if the stream is locked to prevent further structure updates (pipe), false otherwise
this.isLocked = false;

// the event listeners
this._listeners = {
  'data':[],
  'end':[],
  'error':[]
};

// the previous worker, if any
this.previous = null;
}

GenericWorker.prototype = {
  /**
   * Push a chunk to the next workers.
   * @param {Object} chunk the chunk to push
   */
  push : function (chunk) {
    this.emit("data", chunk);
  },
  /**
   * End the stream.
   * @return {Boolean} true if this call ended the worker, false otherwise.
   */
  end : function () {
    if (this.isFinished) {
      return false;
    }
    this.flush();
    try {
      this.emit("end");
      this.cleanUp();
      this.isFinished = true;
    } catch (e) {
      this.emit("error", e);
    }
    return true;
  },
  /**
   * End the stream with an error.
   * @param {Error} e the error which caused the premature end.
   * @return {Boolean} true if this call ended the worker with an error, false otherwise.
   */
  error : function (e) {
    if (this.isFinished) {
      return false;
    }
  }
}
if(this.isPaused) {
    this.generatedError = e;
} else {
    this.isFinished = true;

    this.emit("error", e);

    // in the workers chain exploded in the middle of the chain,
    // the error event will go downward but we also need to notify
    // workers upward that there has been an error.
    if(this.previous) {
        this.previous.error(e);
    }

    this.cleanUp();
}
return true;

/**
 * Add a callback on an event.
 * @param {String} name the name of the event (data, end, error)
 * @param {Function} listener the function to call when the event is triggered
 * @return {GenericWorker} the current object for chainability
 */
on : function (name, listener) {
    this._listeners[name].push(listener);
    return this;
},
/**
 * Clean any references when a worker is ending.
 */
cleanUp : function () {
    this.streamInfo = this.generatedError = this.extraStreamInfo = null;
    this._listeners = [];
},
/**
 * Trigger an event. This will call registered callback with the provided arg.
 * @param {String} name the name of the event (data, end, error)
 * @param {Object} arg the argument to call the callback with.
 */
emit : function (name, arg) {
    if (this._listeners[name]) {
        for(var i = 0; i < this._listeners[name].length; i++) {
            this._listeners[name][i].call(this, arg);
        }
    }
},
* Chain a worker with an other.
* @param {Worker} next the worker receiving events from the current one.
* @return {worker} the next worker for chainability
*/
pipe : function (next) {
  return next.registerPrevious(this);
},

/*
* Same as `pipe` in the other direction.
* Using an API with `pipe(next)` is very easy.
* Implementing the API with the point of view of the next one registering
* a source is easier, see the ZipFileWorker.
* @param {Worker} previous the previous worker, sending events to this one
* @return {Worker} the current worker for chainability
*/
registerPrevious : function (previous) {
  if (this.isLocked) {
    throw new Error("The stream "+ this + " has already been used.");
  }

  // sharing the streamInfo...
  this.streamInfo = previous.streamInfo;
  // ... and adding our own bits
  this.mergeStreamInfo();
  this.previous = previous;
  var self = this;
  previous.on('data', function (chunk) {
    self.processChunk(chunk);
  });
  previous.on('end', function () {
    self.end();
  });
  previous.on('error', function (e) {
    self.error(e);
  });
  return this;
},

/**
* Pause the stream so it doesn't send events anymore.
* @return {Boolean} true if this call paused the worker, false otherwise.
*/
pause : function () {
  if(this.isPaused || this.isFinished) {
    return false;
  }
  this.isPaused = true;
if(this.previous) {
    this.previous.pause();
}
return true;

/**
* Resume a paused stream.
* @return {Boolean} true if this call resumed the worker, false otherwise.
*/
resume : function () {
    if(!this.isPaused || this.isFinished) {
        return false;
    }
    this.isPaused = false;

    // if true, the worker tried to resume but failed
    var withError = false;
    if(this.generatedError) {
        this.error(this.generatedError);
        withError = true;
    }
    if(this.previous) {
        this.previous.resume();
    }

    return !withError;
},

/**
* Flush any remaining bytes as the stream is ending.
*/
flush : function () {},

/**
* Process a chunk. This is usually the method overridden.
* @param {Object} chunk the chunk to process.
*/
processChunk : function(chunk) {
    this.push(chunk);
},

/**
* Add a key/value to be added in the workers chain streamInfo once activated.
* @param {String} key the key to use
* @param {Object} value the associated value
* @return {Worker} the current worker for chainability
*/
withStreamInfo : function (key, value) {
    this.extraStreamInfo[key] = value;
    this.mergeStreamInfo();
    return this;
mergeStreamInfo : function () {
  for(var key in this.extraStreamInfo) {
    if (!this.extraStreamInfo.hasOwnProperty(key)) {
      continue;
    }
    this.streamInfo[key] = this.extraStreamInfo[key];
  }
},

lock: function () {
  if (this.isLocked) {
    throw new Error("The stream "+ this + ". has already been used.");
  }
  this.isLocked = true;
  if (this.previous) {
    this.previous.lock();
  }
},

toString : function () {
  var me = "Worker " + this.name;
  if (this.previous) {
    return this.previous + " -> " + me;
  } else {
    return me;
  }
};

module.exports = GenericWorker;
var GenericWorker = require('./GenericWorker');
var base64 = require('./base64');
var support = require('./support');
var external = require('./external');

var NodejsStreamOutputAdapter = null;
if (support.nodestream) {
    try {
        NodejsStreamOutputAdapter = require('../nodejs/NodejsStreamOutputAdapter');
    } catch(e) {
    }
}

/**
 * Apply the final transformation of the data. If the user wants a Blob for
 * example, it’s easier to work with an U8intArray and finally do the
 * ArrayBuffer/Blob conversion.
 * @param {String} type the name of the final type
 * @param {String|Uint8Array|Buffer} content the content to transform
 * @param {String} mimeType the mime type of the content, if applicable.
 * @return {String|Uint8Array|ArrayBuffer|Buffer|Blob} the content in the right format.
 */
function transformZipOutput(type, content, mimeType) {
    switch(type) {
        case "blob" :
            return utils.newBlob(utils.transformTo("arraybuffer", content), mimeType);
        case "base64" :
            return base64.encode(content);
        default :
            return utils.transformTo(type, content);
    }
}

/**
 * Concatenate an array of data of the given type.
 * @param {String} type the type of the data in the given array.
 * @param {Array} dataArray the array containing the data chunks to concatenate
 * @return {String|Uint8Array|Buffer} the concatenated data
 * @throws Error if the asked type is unsupported
 */
function concat (type, dataArray) {
    var i, index = 0, res = null, totalLength = 0;
    for(i = 0; i < dataArray.length; i++) {
        totalLength += dataArray[i].length;
    }
    switch(type) {
        case "string":
            return dataArray.join(" ");
        case "array":
            return null;
        default :
            return null;
    }
}
function accumulate(helper, updateCallback) {
    return new external.Promise(function (resolve, reject){
        var dataArray = [];
        var chunkType = helper._internalType,
            resultType = helper._outputType,
            mimeType = helper._mimeType;
        helper
            .on('data', function (data, meta) {
                dataArray.push(data);
                if(updateCallback) {
                    updateCallback(meta);
                }
            })
            .on('error', function(err) {
                dataArray = [];
                reject(err);
            })
            .on('end', function (){
                try {
                    var result = transformZipOutput(resultType, concat(chunkType, dataArray), mimeType);
                    resolve(result);
                } catch (e) {
                    reject(e);
                }
            });
    })
}
dataArray = [];
})
.resume();
});
}

/**
 * An helper to easily use workers outside of JSZip.
 * @constructor
 * @param {Worker} worker the worker to wrap
 * @param {String} outputType the type of data expected by the use
 * @param {String} mimeType the mime type of the content, if applicable.
 */
function StreamHelper(worker, outputType, mimeType) {
  var internalType = outputType;
  switch(outputType) {
    case "blob":
    case "arraybuffer":
      internalType = "uint8array";
      break;
    case "base64":
      internalType = "string";
      break;
  }

  try {
    // the type used internally
    this._internalType = internalType;
    // the type used to output results
    this._outputType = outputType;
    // the mime type
    this._mimeType = mimeType;
    utils.checkSupport(internalType);
    this._worker = worker.pipe(new ConvertWorker(internalType));
    // the last workers can be rewired without issues but we need to
    // prevent any updates on previous workers.
    worker.lock();
  } catch(e) {
    this._worker = new GenericWorker("error");
    this._worker.error(e);
  }
}

StreamHelper.prototype = {
  /**
   * Listen a StreamHelper, accumulate its content and concatenate it into a
   * complete block.
   * @param {Function} updateCb the update callback.
   */
* @return Promise the promise for the accumulation.
*/
accumulate : function (updateCb) {
    return accumulate(this, updateCb);
},
/**
* Add a listener on an event triggered on a stream.
* @param {String} evt the name of the event
* @param {Function} fn the listener
* @return {StreamHelper} the current helper.
*/
on : function (evt, fn) {
    var self = this;

    if(evt === "data") {
        this._worker.on(evt, function (chunk) {
            fn.call(self, chunk.data, chunk.meta);
        });
    } else {
        this._worker.on(evt, function () {
            utils.delay(fn, arguments, self);
        });
    }
    return this;
},
/**
* Resume the flow of chunks.
* @return {StreamHelper} the current helper.
*/
resume : function () {
    utils.delay(this._worker.resume, [], this._worker);
    return this;
},
/**
* Pause the flow of chunks.
* @return {StreamHelper} the current helper.
*/
pause : function () {
    this._worker.pause();
    return this;
},
/**
* Return a nodejs stream for this helper.
* @param {Function} updateCb the update callback.
* @return {NodejsStreamOutputAdapter} the nodejs stream.
*/
toNodejsStream : function (updateCb) {
    utils.checkSupport("nodestream");
if (this._outputType !== "nodebuffer") {
    // an object stream containing blob/arraybuffer/uint8array/string
    // is strange and I don’t know if it would be useful.
    // I you find this comment and have a good usecase, please open a
    // bug report!
    throw new Error(this._outputType + " is not supported by this method");
}

return new NodejsStreamOutputAdapter(this, {
    objectMode : this._outputType !== "nodebuffer"
}, updateCb);
}

module.exports = StreamHelper;

'use strict';

exports.base64 = true;
exports.array = true;
exports.string = true;
exports.arraybuffer = typeof ArrayBuffer !== "undefined" && typeof Uint8Array !== "undefined";
exports.nodebuffer = typeof Buffer !== "undefined";
// contains true if JSZip can read/generate Uint8Array, false otherwise.
exports.uint8array = typeof Uint8Array !== "undefined";

if (typeof ArrayBuffer === "undefined") {
    exports.blob = false;
} else {
    var buffer = new ArrayBuffer(0);
    try {
        exports.blob = new Blob([buffer], {
            type: "application/zip"
        }).size === 0;
    } catch (e) {
        try {
            var builder = new Builder();
            builder.append(buffer);
            exports.blob = builder.getBlob('application/zip').size === 0;
        } catch (e) {
            exports.blob = false;
        }
    }
}

try {
    var builder = new Builder();
    builder.append(buffer);
    exports.blob = builder.getBlob('application/zip').size === 0;
} catch (e) {
    exports.blob = false;
try {
    exports.nodestream = !!require('readable-stream').Readable;
} catch(e) {
    exports.nodestream = false;
}

function(require,module,exports){
    'use strict';

    var utils = require('./utils');
    var support = require('./support');
    var nodejsUtils = require('./nodejsUtils');
    var GenericWorker = require('./stream/GenericWorker');

    /**
     * The following functions come from pako, from pako/lib/utils/strings
     * released under the MIT license, see pako https://github.com/nodeca/pako/
     */

    // Table with utf8 lengths (calculated by first byte of sequence)
    // Note, that 5 & 6-byte values and some 4-byte values can not be represented in JS,
    // because max possible codepoint is 0x10ffff
    var _utf8len = new Array(256);
    for (var i=0; i<256; i++) {
    }
    _utf8len[254]=1; // Invalid sequence start

    // convert string to array (typed, when possible)
    var string2buf = function (str) {
        var buf, c, c2, m_pos, i, str_len = str.length, buf_len = 0;

        // count binary size
        for (m_pos = 0; m_pos < str_len; m_pos++) {
            c = str.charCodeAt(m_pos);
            if (((c & 0xfc00) === 0xd800 && (m_pos+1 < str_len)) {
                c2 = str.charCodeAt(m_pos+1);
                if (((c2 & 0xfc00) === 0xdc00) {
                    c = 0x10000 + ((c - 0xd800) << 10) + (c2 - 0xdc00);
                    m_pos++;
                }
            }
            buf_len += c < 0x80 ? 1 : c < 0x800 ? 2 : c < 0x10000 ? 3 : 4;
        }
    }
// allocate buffer
if (support.uint8array) {
    buf = new Uint8Array(buf_len);
} else {
    buf = new Array(buf_len);
}

// convert
for (i=0, m_pos = 0; i < buf_len; m_pos++) {
    c = str.charCodeAt(m_pos);
    if (((c & 0xfc00) === 0xd800 && (m_pos+1 < str_len)) {  
        c2 = str.charCodeAt(m_pos+1);
        if (((c2 & 0xfc00) === 0xdc00) {  
            c = 0x10000 + ((c - 0xd800) << 10) + (c2 - 0xdc00);
            m_pos++;
        }
    }
    if (c < 0x80) {
        /* one byte */
        buf[i++] = c;
    } else if (c < 0x800) {
        /* two bytes */
        buf[i++] = 0xC0 | (c >>> 6);
        buf[i++] = 0x80 | (c & 0x3f);
    } else if (c < 0x10000) {
        /* three bytes */
        buf[i++] = 0xE0 | (c >>> 12);
        buf[i++] = 0x80 | (c >>> 6 & 0x3f);
        buf[i++] = 0x80 | (c & 0x3f);
    } else {
        /* four bytes */
        buf[i++] = 0xf0 | (c >>> 18);
        buf[i++] = 0x80 | (c >>> 12 & 0x3f);
        buf[i++] = 0x80 | (c >>> 6 & 0x3f);
        buf[i++] = 0x80 | (c & 0x3f);
    }
}

return buf;

// Calculate max possible position in utf8 buffer,
// that will not break sequence. If that's not possible
// - (very small limits) return max size as is.
//
// buf[] - utf8 bytes array
// max - length limit (mandatory);
var utf8border = function (buf, max) {
    var pos;

    max = max || buf.length;
    if (max > buf.length) { max = buf.length; }

    // go back from last position, until start of sequence found
    pos = max - 1;
    while (pos >= 0 && (buf[pos] & 0xC0) === 0x80) { pos--; }

    // Fuckup - very small and broken sequence,
    // return max, because we should return something anyway.
    if (pos < 0) { return max; }

    // If we came to start of buffer - that means vuffer is too small,
    // return max too.
    if (pos === 0) { return max; }

    return (pos + _utf8len[buf[pos]] > max) ? pos : max;
};

// convert array to string
var buf2string = function (buf) {
    var str, i, out, c, c_len;
    var len = buf.length;

    // Reserve max possible length (2 words per char)
    // NB: by unknown reasons, Array is significantly faster for
    //     String.fromCharCode.apply than Uint16Array.
    var utf16buf = new Array(len * 2);

    for (out = 0, i = 0; i < len;) {
        c = buf[i++];
        // quick process ascii
        if (c < 0x80) { utf16buf[out++] = c; continue; }

        c_len = _utf8len[c];
        // skip 5 & 6 byte codes
        if (c_len > 4) { utf16buf[out++] = 0xffff; i += c_len - 1; continue; }

        c_len = _utf8len[c];
        // apply mask on first byte
        c &= c_len === 2 ? 0x1f : c_len === 3 ? 0x0f : 0x07;
        // join the rest
        while (c_len > 1 && i < len) {
            c = (c << 6) | (buf[i++] & 0x3f);
            c_len--;
        }
    }

    return utf16buf;
}
// terminated by end of string?
if (c_len > 1) { utf16buf[out++] = 0xfffd; continue; }

if (c < 0x10000) {
    utf16buf[out++] = c;
} else {
    c -= 0x10000;
    utf16buf[out++] = 0xd800 | ((c >> 10) & 0x3ff);
    utf16buf[out++] = 0xdc00 | (c & 0x3ff);
}

// shrinkBuf(utf16buf, out)
if (utf16buf.length !== out) {
    if(utf16buf.subarray) {
        utf16buf = utf16buf.subarray(0, out);
    } else {
        utf16buf.length = out;
    }
}

// return String.fromCharCode.apply(null, utf16buf);
return utils.applyFromCharCode(utf16buf);

// That's all for the pako functions.

/**
 * Transform a javascript string into an array (typed if possible) of bytes,
 * UTF-8 encoded.
 * @param {String} str the string to encode
 * @return {Array|Uint8Array|Buffer} the UTF-8 encoded string.
 */
exports.utf8encode = function utf8encode(str) {
    if (support.nodebuffer) {
        return nodejsUtils.newBufferFrom(str, "utf-8");
    }
    return string2buf(str);
};

/**
 * Transform a bytes array (or a representation) representing an UTF-8 encoded
 * string into a javascript string.
 * @param {Array|Uint8Array|Buffer} buf the data de decode
 */

* @return {String} the decoded string.
* /
exports.utf8decode = function utf8decode(buf) {
  if (support.nodebuffer) {
    return utils.transformTo("nodebuffer", buf).toString("utf-8");
  }

  buf = utils.transformTo(support.uint8array ? "uint8array" : "array", buf);

  return buf2string(buf);
};

/**
 * A worker to decode utf8 encoded binary chunks into string chunks.
 * @constructor
 */
function Utf8DecodeWorker() {
  GenericWorker.call(this, "utf-8 decode");
  // the last bytes if a chunk didn't end with a complete codepoint.
  this.leftOver = null;
}
utils.inherits(Utf8DecodeWorker, GenericWorker);

/**
 * @see GenericWorker.processChunk
 */
Utf8DecodeWorker.prototype.processChunk = function (chunk) {
  var data = utils.transformTo(support.uint8array ? "uint8array" : "array", chunk.data);

  // 1st step, re-use what's left of the previous chunk
  if (this.leftOver && this.leftOver.length) {
    if(support.uint8array) {
      var previousData = data;
      data = new Uint8Array(previousData.length + this.leftOver.length);
      data.set(this.leftOver, 0);
      data.set(previousData, this.leftOver.length);
    } else {
      data = this.leftOver.concat(data);
    }
    this.leftOver = null;
  }

  var nextBoundary = utf8border(data);
  var usableData = data;
  if (nextBoundary !== data.length) {
    if (support.uint8array) {
      usableData = data.subarray(0, nextBoundary);
    }
  }
  // 2nd step, process usableData
  // ...
```javascript
this.leftOver = data.subarray(nextBoundary, data.length);
} else {
    usableData = data.slice(0, nextBoundary);
    this.leftOver = data.slice(nextBoundary, data.length);
}

this.push(
    {
        data : exports.utf8decode(usableData),
        meta : chunk.meta
    });
};

/**
 * @see GenericWorker.flush
 */
Utf8DecodeWorker.prototype.flush = function () {
    if(this.leftOver && this.leftOver.length) {
        this.push(
            {
                data : exports.utf8decode(this.leftOver),
                meta : {}
            });
        this.leftOver = null;
    }
};
exports.Utf8DecodeWorker = Utf8DecodeWorker;

/**
 * A worker to encode string chunks into utf8 encoded binary chunks.
 * @constructor
 */
function Utf8EncodeWorker() {
    GenericWorker.call(this, "utf-8 encode");
}
utils.inherits(Utf8EncodeWorker, GenericWorker);

/**
 * @see GenericWorker.processChunk
 */
Utf8EncodeWorker.prototype.processChunk = function (chunk) {
    this.push(
        {
            data : exports.utf8encode(chunk.data),
            meta : chunk.meta
        });
};
exports.Utf8EncodeWorker = Utf8EncodeWorker;
```

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/**
 * Convert a string that pass as a "binary string": it should represent a byte
 * array but may have > 255 char codes. Be sure to take only the first byte
 * and returns the byte array.
 * @param {String} str the string to transform.
 * @return {Array|Uint8Array} the string in a binary format.
 */
function string2binary(str) {
    var result = null;
    if (support.uint8array) {
        result = new Uint8Array(str.length);
    } else {
        result = new Array(str.length);
    }
    return stringToArrayLike(str, result);
}

/**
 * Create a new blob with the given content and the given type.
 * @param {String|ArrayBuffer} part the content to put in the blob. DO NOT use
 * an Uint8Array because the stock browser of android 4 won't accept it (it
 * will be silently converted to a string, "[object Uint8Array]").
 * @param {String} type the mime type of the blob.
 * @return {Blob} the created blob.
 */
exports.newBlob = function(part, type) {
    exports.checkSupport("blob");
    try {
        // Blob constructor
        return new Blob([part], { type: type });
    }
}
try {
    // deprecated, browser only, old way
    var builder = new Builder();
    builder.append(part);
    return builder.getBlob(type);
}
catch (e) {

    // well, fuck ?!
    throw new Error("Bug : can't construct the Blob.");
}
};

/**
 * The identity function.
 * @param {Object} input the input.
 * @return {Object} the same input.
 */
function identity(input) {
    return input;
}

/**
 * Fill in an array with a string.
 * @param {String} str the string to use.
 * @param {Array|ArrayBuffer|Uint8Array|Buffer} array the array to fill in (will be mutated).
 * @return {Array|ArrayBuffer|Uint8Array|Buffer} the updated array.
 */
function stringToArrayLike(str, array) {
    for (var i = 0; i < str.length; ++i) {
        array[i] = str.charCodeAt(i) & 0xFF;
    }
    return array;
}

/**
 * An helper for the function arrayLikeToString.
 * This contains static information and functions that
 * can be optimized by the browser JIT compiler.
 */
var arrayToStringHelper = {
/**
* Transform an array of int into a string, chunk by chunk.
* See the performances notes on arrayLikeToString.
* @param {Array|ArrayBuffer|Uint8Array|Buffer} array the array to transform.
* @param {String} type the type of the array.
* @param {Integer} chunk the chunk size.
* @return {String} the resulting string.
* @throws Error if the chunk is too big for the stack.
*/

stringifyByChunk: function(array, type, chunk) {
    var result = [], k = 0, len = array.length;
    // shortcut
    if (len <= chunk) {
        return String.fromCharCode.apply(null, array);
    }
    while (k < len) {
        if (type === "array" || type === "nodebuffer") {
            result.push(String.fromCharCode.apply(null, array.slice(k, Math.min(k + chunk, len))));
        } else {
            result.push(String.fromCharCode.apply(null, array.subarray(k, Math.min(k + chunk, len))));
        }
        k += chunk;
    }
    return result.join(" ");
},
/**
* Call String.fromCharCode on every item in the array.
* This is the naive implementation, which generate A LOT of intermediate string.
* This should be used when everything else fail.
* @param {Array|ArrayBuffer|Uint8Array|Buffer} array the array to transform.
* @return {String} the result.
*/

stringifyByChar: function(array){
    var resultStr = "";
    for(var i = 0; i < array.length; i++) {
        resultStr += String.fromCharCode(array[i]);
    }
    return resultStr;
},
applyCanBeUsed : {
/**
* true if the browser accepts to use String.fromCharCode on Uint8Array
*/
.uint8array : (function () {
    try {
        return support.uint8array && String.fromCharCode.apply(null, new Uint8Array(1)).length === 1;
    } catch (e) {
        return false;
    }
}
nodebuffer : (function () {
    try {
        return support.nodebuffer && String.fromCharCode.apply(null, nodejsUtils.allocBuffer(1)).length === 1;
    } catch (e) {
        return false;
    }
})()

/**
 * Transform an array-like object to a string.
 * @param {Array|ArrayBuffer|Uint8Array|Buffer} array the array to transform.
 * @return {String} the result.
 */
function arrayLikeToString(array) {
    // Performances notes :
    // --------------------
    // String.fromCharCode.apply(null, array) is the fastest, see
    // see http://jsperf.com/converting-a-uint8array-to-a-string/2
    // but the stack is limited (and we can get huge arrays !).
    // result += String.fromCharCode(array[i]); generate too many strings !
    // This code is inspired by http://jsperf.com/arraybuffer-to-string-apply-performance/2
    // TODO : we now have workers that split the work. Do we still need that ?
    var chunk = 65536,
        type = exports.getTypeOf(array),
        canUseApply = true;
    if (type === "uint8array") {
        canUseApply = arrayToStringHelper.applyCanBeUsed.uint8array;
    } else if (type === "nodebuffer") {
        canUseApply = arrayToStringHelper.applyCanBeUsed.nodebuffer;
    }
    if (canUseApply) {
        while (chunk > 1) {
            try {
                return arrayToStringHelper.stringifyByChunk(array, type, chunk);
            } catch (e) {
                chunk = Math.floor(chunk / 2);
            }
        }
    }
}
// no apply or chunk error: slow and painful algorithm
// default browser on android 4.*
return arrayToStringHelper.stringifyByChar(array);

exports.applyFromCharCode = arrayLikeToString;

/**
 * Copy the data from an array-like to an other array-like.
 * @param {Array|ArrayBuffer|Uint8Array|Buffer} arrayFrom the origin array.
 * @param {Array|ArrayBuffer|Uint8Array|Buffer} arrayTo the destination array which will be mutated.
 * @return {Array|ArrayBuffer|Uint8Array|Buffer} the updated destination array.
 */
function arrayLikeToArrayLike(arrayFrom, arrayTo) {
  for (var i = 0; i < arrayFrom.length; i++) {
    arrayTo[i] = arrayFrom[i];
  }
  return arrayTo;
}

// a matrix containing functions to transform everything into everything.
var transform = {};

// string to ?
transform["string"] = {
  "string": identity,
  "array": function(input) {
    return stringToArrayLike(input, new Array(input.length));
  },
  "arraybuffer": function(input) {
    return transform["string"]["uint8array"](input).buffer;
  },
  "uint8array": function(input) {
    return stringToArrayLike(input, new Uint8Array(input.length));
  },
  "nodebuffer": function(input) {
    return stringToArrayLike(input, nodejsUtils.allocBuffer(input.length));
  }
};

// array to ?
transform["array"] = {
  "string": arrayLikeToString,
  "array": identity,
  "arraybuffer": function(input) {

return (new Uint8Array(input)).buffer;
},
"uint8array": function(input) {
    return new Uint8Array(input);
},
"nodebuffer": function(input) {
    return nodejsUtils.newBufferFrom(input);
}
};

// arraybuffer to ?
transform["arraybuffer"] = {
    "string": function(input) {
        return arrayLikeToString(new Uint8Array(input));
    },
    "array": function(input) {
        return arrayLikeToArrayLike(new Uint8Array(input), new Array(input.byteLength));
    },
    "arraybuffer": identity,
    "uint8array": function(input) {
        return new Uint8Array(input);
    },
    "nodebuffer": function(input) {
        return nodejsUtils.newBufferFrom(new Uint8Array(input));
    }
};

// uint8array to ?
transform["uint8array"] = {
    "string": arrayLikeToString,
    "array": function(input) {
        return arrayLikeToArrayLike(input, new Array(input.length));
    },
    "arraybuffer": function(input) {
        return input.buffer;
    },
    "uint8array": identity,
    "nodebuffer": function(input) {
        return nodejsUtils.newBufferFrom(input);
    }
};

// nodebuffer to ?
transform["nodebuffer"] = {
    "string": arrayLikeToString,
    "array": function(input) {
        return arrayLikeToArrayLike(input, new Array(input.length));
    }
};
"arraybuffer": function(input) {
    return transform['nodebuffer']["uint8array"][input].buffer;
},
"uint8array": function(input) {
    return arrayLikeToArrayLike(input, new Uint8Array(input.length));
},
"nodebuffer": identity
};

/**
 * Transform an input into any type.
 * The supported output type are : string, array, uint8array, arraybuffer, nodebuffer.
 * If no output type is specified, the unmodified input will be returned.
 * @param {String} outputType the output type.
 * @param {String|Array|ArrayBuffer|Uint8Array|Buffer} input the input to convert.
 * @throws {Error} an Error if the browser doesn't support the requested output type.
 */
exports.transformTo = function(outputType, input) {
    if (!input) {
        // undefined, null, etc
        // an empty string won't harm.
        input = "";
    }
    if (!outputType) {
        return input;
    }
    exports.checkSupport(outputType);
    var inputType = exports.getTypeOf(input);
    var result = transform[inputType][outputType](input);
    return result;
};

/**
 * Return the type of the input.
 * The type will be in a format valid for JSZip.utils.transformTo : string, array, uint8array, arraybuffer.
 * @param {Object} input the input to identify.
 * @return {String} the (lowercase) type of the input.
 */
exports.getTypeOf = function(input) {
    if (typeof input === "string") {
        return "string";
    }
    if (Object.prototype.toString.call(input) === "[object Array]") {
        return "array";
    }
    if (support.nodebuffer && nodejsUtils.isBuffer(input)) {
        return "nodebuffer";
    }
}
if (support.uint8array && input instanceof Uint8Array) {
    return "uint8array";
}
if (support.arraybuffer && input instanceof ArrayBuffer) {
    return "arraybuffer";
}
);
/**
 * Throw an exception if the type is not supported.
 * @param {String} type the type to check.
 * @throws {Error} an Error if the browser doesn't support the requested type.
 */
exports.checkSupport = function(type) {
    var supported = support[type.toLowerCase()];
    if (!supported) {
        throw new Error(type + " is not supported by this platform");
    }
};

exports.MAX_VALUE_16BITS = 65535;
exports.MAX_VALUE_32BITS = -1; // well, "\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF\xFF" is parsed as -1

/**
 * Prettify a string read as binary.
 * @param {string} str the string to pretty.
 * @return {string} a pretty string.
 */
exports.pretty = function(str) {
    var res = ",
    code, i;
    for (i = 0; i < (str || "").length; i++) {
        code = str.charCodeAt(i);
        res += '\\x' + (code < 16 ? "0" : "") + code.toString(16).toUpperCase();
    }
    return res;
};

/**
 * Defer the call of a function.
 * @param {Function} callback the function to call asynchronously.
 * @param {Array} args the arguments to give to the callback.
 */
exports.delay = function(callback, args, self) {
    setImmediate(function () {
        callback.apply(self || null, args || []);
    });
};
* Extends a prototype with another, without calling a constructor with
* side effects. Inspired by nodejs’ `utils.inherits`
* @param {Function} ctor the constructor to augment
* @param {Function} superCtor the parent constructor to use
*/
exports.inherits = function (ctor, superCtor) {
    var Obj = function() {};
    Obj.prototype = superCtor.prototype;
    ctor.prototype = new Obj();
};

/***
* Merge the objects passed as parameters into a new one.
* @private
* @param {...Object} var_args All objects to merge.
* @return {Object} a new object with the data of the others.
*/
exports.extend = function() {
    var result = {}, i, attr;
    for (i = 0; i < arguments.length; i++) { // arguments is not enumerable in some browsers
        for (attr in arguments[i]) {
            if (arguments[i].hasOwnProperty(attr) && typeof result[attr] === "undefined") {
                result[attr] = arguments[i][attr];
            }
        }
    }
    return result;
};

/***
* Transform arbitrary content into a Promise.
* @param {String} name a name for the content being processed.
* @param {Object} inputData the content to process.
* @param {Boolean} isBinary true if the content is not an unicode string
* @param {Boolean} isOptimizedBinaryString true if the string content only has one byte per character.
* @param {Boolean} isBase64 true if the string content is encoded with base64.
* @return {Promise} a promise in a format usable by JSZip.
*/
exports.prepareContent = function(name, inputData, isBinary, isOptimizedBinaryString, isBase64) {
    // if inputData is already a promise, this flatten it.
    var promise = external.Promise.resolve(inputData).then(function(data) {

        var isBlob = support.blob && (data instanceof Blob || ['[object File]', '[object Blob]'].indexOf(Object.prototype.toString.call(data)) === -1);
if (isBlob && typeof FileReader !== "undefined") {
    return new external.Promise((resolve, reject) => {
        var reader = new FileReader();

        reader.onload = function(e) {
            resolve(e.target.result);
        }
        reader.onerror = function(e) {
            reject(e.target.error);
        }
        reader.readAsArrayBuffer(data);
    });
} else {
    return data;
}
});

return promise.then((data) => {
    var dataType = exports.getTypeOf(data);

    if (!dataType) {
        return external.Promise.reject(new Error("Can't read the data of " + name + ". Is it "+
            "in a supported JavaScript type (String, Blob, ArrayBuffer, etc) ?")
        );
    }
    // special case : it's way easier to work with Uint8Array than with ArrayBuffer
    if (dataType === "arraybuffer") {
        data = exports.transformTo("uint8array", data);
    } else if (dataType === "string") {
        if (isBase64) {
            data = base64.decode(data);
        } else if (isBinary) {
            // optimizedBinaryString === true means that the file has already been filtered with a 0xFF mask
            if (isOptimizedBinaryString !== true) {
                // this is a string, not in a base64 format.
                // Be sure that this is a correct "binary string"
                data = string2binary(data);
            }
        } else if (isBinary) {
            // optimizedBinaryString === true means that the file has already been filtered with a 0xFF mask
            if (isOptimizedBinaryString !== true) {
                // this is a string, not in a base64 format.
                // Be sure that this is a correct "binary string"
                data = string2binary(data);
            }
        } else if (isBinary) {
            // optimizedBinaryString === true means that the file has already been filtered with a 0xFF mask
            if (isOptimizedBinaryString !== true) {
                // this is a string, not in a base64 format.
                // Be sure that this is a correct "binary string"
                data = string2binary(data);
            }
        } else if (isBinary) {
            // optimizedBinaryString === true means that the file has already been filtered with a 0xFF mask
            if (isOptimizedBinaryString !== true) {
                // this is a string, not in a base64 format.
                // Be sure that this is a correct "binary string"
                data = string2binary(data);
            }
        } else if (isBinary) {
            // optimizedBinaryString === true means that the file has already been filtered with a 0xFF mask
            if (isOptimizedBinaryString !== true) {
                // this is a string, not in a base64 format.
                // Be sure that this is a correct "binary string"
                data = string2binary(data);
            }
        } else if (isBinary) {
            // optimizedBinaryString === true means that the file has already been filtered with a 0xFF mask
            if (isOptimizedBinaryString !== true) {
                // this is a string, not in a base64 format.
                // Be sure that this is a correct "binary string"
                data = string2binary(data);
            }
        } else if (isBinary) {
            // optimizedBinaryString === true means that the file has already been filtered with a 0xFF mask
            if (isOptimizedBinaryString !== true) {
                // this is a string, not in a base64 format.
                // Be sure that this is a correct "binary string"
                data = string2binary(data);
            }
        } else if (isBinary) {
            // optimizedBinaryString === true means that the file has already been filtered with a 0xFF mask
            if (isOptimizedBinaryString !== true) {
                // this is a string, not in a base64 format.
                // Be sure that this is a correct "binary string"
                data = string2binary(data);
            }
        } else if (isBinary) {
            // optimizedBinaryString === true means that the file has already been filtered with a 0xFF mask
            if (isOptimizedBinaryString !== true) {
                // this is a string, not in a base64 format.
                // Be sure that this is a correct "binary string"
                data = string2binary(data);
            }
        }
    }

    return data;
});
```javascript
'use strict';

var readerFor = require('./reader/readerFor');
var utils = require('./utils');
var sig = require('./signature');
var ZipEntry = require('./zipEntry');
var utf8 = require('./utf8');
var support = require('./support');

// class ZipEntries {{
/**
 * All the entries in the zip file.
 * @constructor
 * @param {Object} loadOptions Options for loading the stream.
 */
function ZipEntries(loadOptions) {
  this.files = [];
  this.loadOptions = loadOptions;
}
ZipEntries.prototype = {
/**
 * Check that the reader is on the specified signature.
 * @param {string} expectedSignature the expected signature.
 * @throws {Error} if it is an other signature.
 */
  checkSignature: function(expectedSignature) {
    if (!this.reader.readAndCheckSignature(expectedSignature)) {
      var signature = this.reader.readString(4);
      throw new Error("Corrupted zip or bug: unexpected signature " + "(" + utils.pretty(signature) + ", expected " + utils.pretty(expectedSignature) + ")");
    }
  },
/**
 * Check if the given signature is at the given index.
 * @param {number} askedIndex the index to check.
 * @param {string} expectedSignature the signature to expect.
 * @return {boolean} true if the signature is here, false otherwise.
 */
  isSignature: function(askedIndex, expectedSignature) {
    var currentIndex = this.reader.index;
    this.reader.setIndex(askedIndex);
    var signature = this.reader.readString(4);
    var result = signature === expectedSignature;
    this.reader.setIndex(currentIndex);
    return result;
  },
/**
 * Read the end of the central directory.
 */
```
readBlockEndOfCentral: function() {
    this.diskNumber = this.reader.readInt(2);
    this.diskWithCentralDirStart = this.reader.readInt(2);
    this.centralDirRecordsOnThisDisk = this.reader.readInt(2);
    this.centralDirRecords = this.reader.readInt(2);
    this.centralDirSize = this.reader.readInt(4);
    this.centralDirOffset = this.reader.readInt(4);
    this.zipCommentLength = this.reader.readInt(2);
    // warning : the encoding depends of the system locale
    // On a linux machine with LANG=en_US.utf8, this field is utf8 encoded.
    // On a windows machine, this field is encoded with the localized windows code page.
    var zipComment = this.reader.readData(this.zipCommentLength);
    var decodeParamType = support.uint8array ? "uint8array" : "array";
    // To get consistent behavior with the generation part, we will assume that
    // this is utf8 encoded unless specified otherwise.
    var decodeContent = utils.transformTo(decodeParamType, zipComment);
    this.zipComment = this.loadOptions.decodeFileName(decodeContent);
},
/**
 * Read the end of the Zip 64 central directory.
 * Not merged with the method readEndOfCentral :
 * The end of central can coexist with its Zip64 brother,
 * I don't want to read the wrong number of bytes !
 */
readBlockZip64EndOfCentral: function() {
    this.zip64EndOfCentralSize = this.reader.readInt(8);
    this.reader.skip(4);
    // this.versionMadeBy = this.reader.readString(2);
    // this.versionNeeded = this.reader.readInt(2);
    this.diskNumber = this.reader.readInt(4);
    this.diskWithCentralDirStart = this.reader.readInt(4);
    this.centralDirRecordsOnThisDisk = this.reader.readInt(8);
    this.centralDirRecords = this.reader.readInt(8);
    this.centralDirSize = this.reader.readInt(8);
    this.centralDirOffset = this.reader.readInt(8);
    this.zip64ExtensibleData = {};
    var extraDataSize = this.zip64EndOfCentralSize - 44,
        index = 0,
        extraFieldId,
        extraFieldLength,
        extraFieldValue;
    while (index < extraDataSize) {
        extraFieldId = this.reader.readInt(2);
        extraFieldLength = this.reader.readInt(4);
        extraFieldValue = this.reader.readData(extraFieldLength);
this.zip64ExtensibleData[extraFieldId] = {
  id: extraFieldId,
  length: extraFieldLength,
  value: extraFieldValue
};
}
},
/**
 * Read the end of the Zip 64 central directory locator.
 */
readBlockZip64EndOfCentralLocator: function() {
  this.diskWithZip64CentralDirStart = this.reader.readInt(4);
  this.relativeOffsetEndOfZip64CentralDir = this.reader.readInt(8);
  this.disksCount = this.reader.readInt(4);
  if (this.disksCount > 1) {
    throw new Error("Multi-volumes zip are not supported");
  }
},
/**
 * Read the local files, based on the offset read in the central part.
 */
readLocalFiles: function() {
  var i, file;
  for (i = 0; i < this.files.length; i++) {
    file = this.files[i];
    this.reader.setIndex(file.localHeaderOffset);
    this.checkSignature(sig.LOCAL_FILE_HEADER);
    file.readLocalPart(this.reader);
    file.handleUTF8();
    file.processAttributes();
  }
},
/**
 * Read the central directory.
 */
readCentralDir: function() {
  var file;

  this.reader.setIndex(this.centralDirOffset);
  while (this.reader.readAndCheckSignature(sig.CENTRAL_FILE_HEADER)) {
    file = new ZipEntry({
      zip64: this.zip64
    }, this.loadOptions);
    file.readCentralPart(this.reader);
    this.files.push(file);
  }

  if (this.centralDirRecords !== this.files.length) {
    // Do something...
  }
}
if (this.centralDirRecords !== 0 && this.files.length === 0) {
    // We expected some records but couldn't find ANY.
    // This is really suspicious, as if something went wrong.
    throw new Error("Corrupted zip or bug: expected " + this.centralDirRecords + " records in central dir, got " + this.files.length);
} else {
    // We found some records but not all.
    // Something is wrong but we got something for the user: no error here.
    // console.warn("expected", this.centralDirRecords, "records in central dir, got", this.files.length);
    
    
}

/**
 * Read the end of central directory.
 */
readEndOfCentral: function() {
    var offset = this.reader.lastIndexOfSignature(sig.CENTRAL_DIRECTORY_END);
    if (offset < 0) {
        // Check if the content is a truncated zip or complete garbage.
        // A "LOCAL_FILE_HEADER" is not required at the beginning (auto extractible zip for example) but it can give a good hint.
        // If an ajax request was used without responseType, we will also get unreadable data.
        var isGarbage = !this.isSignature(0, sig.LOCAL_FILE_HEADER);
        if (isGarbage) {
            throw new Error("Can't find end of central directory : is this a zip file ? " + "If it is, see https://stuk.github.io/jszip/documentation/howto/read_zip.html");
        } else {
            throw new Error("Corrupted zip: can't find end of central directory");
        }
    }
    
    this.reader.setIndex(offset);
    var endOfCentralDirOffset = offset;
    this.checkSignature(sig.CENTRAL_DIRECTORY_END);
    this.readBlockEndOfCentral();

    /* extract from the zip spec :
4) If one of the fields in the end of central directory record is too small to hold required data, the field should be set to -1 (0xFFFF or 0xFFFFFFFF) and the ZIP64 format record should be created.
5) The end of central directory record and the Zip64 end of central directory locator record must reside on the same disk when splitting or spanning an archive.
if (this.diskNumber === utils.MAX_VALUE_16BITS || this.diskWithCentralDirStart ===
utils.MAX_VALUE_16BITS || this.centralDirRecordsOnThisDisk ===
utils.MAX_VALUE_16BITS || this.centralDirRecords ===
utils.MAX_VALUE_16BITS || this.centralDirSize ===
utils.MAX_VALUE_32BITS || this.centralDirOffset ===
utils.MAX_VALUE_32BITS) {
    this.zip64 = true;
}

Warning: the zip64 extension is supported, but ONLY if the 64bits integer read from
the zip file can fit into a 32bits integer. This cannot be solved: JavaScript represents
all numbers as 64-bit double precision IEEE 754 floating point numbers.
So, we have 53bits for integers and bitwise operations treat everything as 32bits.

// should look for a zip64 EOCD locator
offset = this.reader.lastIndexOfSignature(sig.ZIP64_CENTRAL_DIRECTORY_LOCATOR);
if (offset < 0) {
    throw new Error("Corrupted zip: can't find the ZIP64 end of central directory locator");
}
this.reader.setIndex(offset);
this.checkSignature(sig.ZIP64_CENTRAL_DIRECTORY_LOCATOR);
this.readBlockZip64EndOfCentralLocator();

// now the zip64 EOCD record
if (!this.isSignature(this.relativeOffsetEndOfZip64CentralDir, sig.ZIP64_CENTRAL_DIRECTORY_END))
{
    // console.warn("ZIP64 end of central directory not where expected.");
    this.relativeOffsetEndOfZip64CentralDir =
    this.reader.lastIndexOfSignature(sig.ZIP64_CENTRAL_DIRECTORY_END);
    if (this.relativeOffsetEndOfZip64CentralDir < 0) {
        throw new Error("Corrupted zip: can't find the ZIP64 end of central directory");
    }
}
this.reader.setIndex(this.relativeOffsetEndOfZip64CentralDir);
this.checkSignature(sig.ZIP64_CENTRAL_DIRECTORY_END);
this.readBlockZip64EndOfCentral();

var expectedEndOfCentralDirOffset = this.centralDirOffset + this.centralDirSize;
if (this.zip64) {
    expectedEndOfCentralDirOffset += 20; // end of central dir 64 locator
    expectedEndOfCentralDirOffset += 12 /* should not include the leading 12 bytes */
    this.zip64EndOfCentralSize;
}

var extraBytes = endOfCentralDirOffset - expectedEndOfCentralDirOffset;
if (extraBytes > 0) {
  // console.warn(extraBytes, "extra bytes at beginning or within zipfile");
  if (this.isSignature(endOfCentralDirOffset, sig.CENTRAL_FILE_HEADER)) {
    // The offsets seem wrong, but we have something at the specified offset.
    // So we keep it.
    } else {
      // the offset is wrong, update the "zero" of the reader
      // this happens if data has been prepended (crx files for example)
      this.reader.zero = extraBytes;
    }
  } else if (extraBytes < 0) {
    throw new Error("Corrupted zip: missing " + Math.abs(extraBytes) + " bytes.");
  }
}

prepareReader: function(data) {
  this.reader = readerFor(data);
},

/**
 * Read a zip file and create ZipEntries.
 * @param {String|ArrayBuffer|Uint8Array|Buffer} data the binary string representing a zip file.
 */
load: function(data) {
  this.prepareReader(data);
  this.readEndOfCentral();
  this.readCentralDir();
  this.readLocalFiles();
}
};

// end of ZipEntries
module.exports = ZipEntries;

};{"./reader/readerFor":22,"./signature":23,"./support":30,"./utf8":31,"./utils":32,"./zipEntry":34}]}.34;[function(require,module,exports){
'use strict';
var readerFor = require('./reader/readerFor');
var utils = require('./utils');
var CompressedObject = require('./compressedObject');
var crc32fn = require('./crc32');
var utf8 = require('./utf8');
var compressions = require('./compressions');
var support = require('./support');

var MADE_BY_DOS = 0x00;
var MADE_BY_UNIX = 0x03;

/**
 * Find a compression registered in JSZip.
* @param {string} compressionMethod the method magic to find.
* @return {Object|null} the JSZip compression object, null if none found.
*/

```
var findCompression = function(compressionMethod) {
    for (var method in compressions) {
        if (!compressions.hasOwnProperty(method)) {
            continue;
        }
        if (compressions[method].magic === compressionMethod) {
            return compressions[method];
        }
    }
    return null;
};
```

// class ZipEntry {{
/**
* An entry in the zip file.
* @constructor
* @param {Object} options Options of the current file.
* @param {Object} loadOptions Options for loading the stream.
*/
function ZipEntry(options, loadOptions) {
    this.options = options;
    this.loadOptions = loadOptions;
}
ZipEntry.prototype = {
    /**
    * say if the file is encrypted.
    * @return {boolean} true if the file is encrypted, false otherwise.
    */
    isEncrypted: function() {
        // bit 1 is set
        return (this.bitFlag & 0x0001) === 0x0001;
    },
    /**
    * say if the file has utf-8 filename/comment.
    * @return {boolean} true if the filename/comment is in utf-8, false otherwise.
    */
    useUTF8: function() {
        // bit 11 is set
        return (this.bitFlag & 0x0800) === 0x0800;
    },
    /**
    * Read the local part of a zip file and add the info in this object.
    * @param {DataReader} reader the reader to use.
    */
    readLocalPart: function(reader) {
        // Read the local part of the zip file and add the info to this object.
    }
};```
var compression, localExtraFieldsLength;

// we already know everything from the central dir !
// If the central dir data are false, we are doomed.
// On the bright side, the local part is scary : zip64, data descriptors, both, etc.
// The less data we get here, the more reliable this should be.
// Let's skip the whole header and dash to the data !
reader.skip(22);
// in some zip created on windows, the filename stored in the central dir contains \ instead of /.
// Strangely, the filename here is OK.
// I would love to treat these zip files as corrupted (see http://www.info-zip.org/FAQ.html#backslashes
// or APPNOTE#4.4.17.1, "All slashes MUST be forward slashes '/'") but there are a lot of bad zip generators...
// Search "unzip mismatching "local" filename continuing with "central" filename version" on
// the internet.

// I think I see the logic here : the central directory is used to display
// content and the local directory is used to extract the files. Mixing / and \n// may be used to display \ to windows users and use / when extracting the files.
// Unfortunately, this lead also to some issues : http://seclists.org/fullDisclosure/2009/Sep/394
this.fileNameLength = reader.readInt(2);
localExtraFieldsLength = reader.readInt(2); // can't be sure this will be the same as the central dir
// the fileName is stored as binary data, the handleUTF8 method will take care of the encoding.
this.fileName = reader.readData(this.fileNameLength);
reader.skip(localExtraFieldsLength);

if (this.compressedSize === -1 || this.uncompressedSize === -1) {
    throw new Error("Bug or corrupted zip : didn't get enough information from the central directory " +
    "(compressedSize === -1 || uncompressedSize === -1)");
}

compression = findCompression(this.compressionMethod);
if (compression === null) { // no compression found
    throw new Error("Corrupted zip : compression " + utils.pretty(this.compressionMethod) + " unknown (inner
    file : " + utils.transformTo("string", this.fileName) + ")");
}

this.decompressed = new CompressedObject(this.compressedSize, this.uncompressedSize, this.crc32,
    compression, reader.readData(this.compressedSize));
};

/**
 * Read the central part of a zip file and add the info in this object.
 * @param {DataReader} reader the reader to use.
 */
readCentralPart: function(reader) {
    this.versionMadeBy = reader.readInt(2);
    reader.skip(2);
    // this.versionNeeded = reader.readInt(2);
    this.bitFlag = reader.readInt(2);
}
this.compressionMethod = reader.readString(2);
this.date = reader.readDate();
this.crc32 = reader.readInt(4);
this.compressedSize = reader.readInt(4);
this.uncompressedSize = reader.readInt(4);
var fileNameLength = reader.readInt(2);
this.extraFieldsLength = reader.readInt(2);
this.fileCommentLength = reader.readInt(2);
this.diskNumberStart = reader.readInt(2);
this.externalFileAttributes = reader.readInt(2);
this.localHeaderOffset = reader.readInt(4);

if (this.isEncrypted()) {
    throw new Error("Encrypted zip are not supported");
}

// will be read in the local part, see the comments there
reader.skip(fileNameLength);
this.readExtraFields(reader);
this.parseZIP64ExtraField(reader);
this.fileComment = reader.readData(this.fileCommentLength);

/**
* Parse the external file attributes and get the unix/dos permissions.
*/
processAttributes: function () {
    this.unixPermissions = null;
    this.dosPermissions = null;
    var madeBy = this.versionMadeBy >> 8;

    // Check if we have the DOS directory flag set.
    // We look for it in the DOS and UNIX permissions
    // but some unknown platform could set it as a compatibility flag.
    this.dir = this.externalFileAttributes & 0x0010 ? true : false;

    if(madeBy === MADE_BY_DOS) {
        // first 6 bits (0 to 5)
        this.dosPermissions = this.externalFileAttributes & 0x3F;
    }

    if(madeBy === MADE_BY_UNIX) {
        this.unixPermissions = (this.externalFileAttributes >> 16) & 0xFFFF;
        // the octal permissions are in (this.unixPermissions & 0x01FF).toString(8);
    }

    // fail safe : if the name ends with a / it probably means a folder
if (!this.dir && this.fileNameStr.slice(-1) === '/') {
    this.dir = true;
}

/**
 * Parse the ZIP64 extra field and merge the info in the current ZipEntry.
 * @param {DataReader} reader the reader to use.
 */
parseZIP64ExtraField: function(reader) {

    if (!this.extraFields[0x0001]) {
        return;
    }

    // should be something, preparing the extra reader
    var extraReader = readerFor(this.extraFields[0x0001].value);

    // I really hope that these 64bits integer can fit in 32 bits integer, because js
    // won't let us have more.
    if (this.uncompressedSize === utils.MAX_VALUE_32BITS) {
        this.uncompressedSize = extraReader.readInt(8);
    }
    if (this.compressedSize === utils.MAX_VALUE_32BITS) {
        this.compressedSize = extraReader.readInt(8);
    }
    if (this.localHeaderOffset === utils.MAX_VALUE_32BITS) {
        this.localHeaderOffset = extraReader.readInt(8);
    }
    if (this.diskNumberStart === utils.MAX_VALUE_32BITS) {
        this.diskNumberStart = extraReader.readInt(4);
    }
},

/**
 * Read the central part of a zip file and add the info in this object.
 * @param {DataReader} reader the reader to use.
 */
readExtraFields: function(reader) {
    var end = reader.index + this.extraFieldsLength,
        extraFieldId,
        extraFieldLength,
        extraFieldValue;

    if (!this.extraFields) {
        this.extraFields = {};
    }

    while (reader.index < end) {
extraFieldId = reader.readInt(2);
extraFieldLength = reader.readInt(2);
extraFieldValue = reader.readData(extraFieldLength);

this.extraFields[extraFieldId] = {
  id: extraFieldId,
  length: extraFieldLength,
  value: extraFieldValue
};
},
/**
* Apply an UTF8 transformation if needed.
*/
handleUTF8: function() {
  var decodeParamType = support.uint8array ? "uint8array" : "array";
  if (this.useUTF8()) {
    this.fileNameStr = utf8.utf8decode(this.fileName);
    this.fileCommentStr = utf8.utf8decode(this.fileComment);
  } else {
    var upath = this.findExtraFieldUnicodePath();
    if (upath !== null) {
      this.fileNameStr = upath;
    } else {
      // ASCII text or unsupported code page
      var fileNameByteArray = utils.transformTo(decodeParamType, this.fileName);
      this.fileNameStr = this.loadOptions.decodeFileName(fileNameByteArray);
    }
  }
  var ucomment = this.findExtraFieldUnicodeComment();
  if (ucomment !== null) {
    this.fileCommentStr = ucomment;
  } else {
    // ASCII text or unsupported code page
    var commentByteArray = utils.transformTo(decodeParamType, this.fileComment);
    this.fileCommentStr = this.loadOptions.decodeFileName(commentByteArray);
  }
},
/**
* Find the unicode path declared in the extra field, if any.
* @return {String} the unicode path, null otherwise.
*/
findExtraFieldUnicodePath: function() {
  var upathField = this.extraFields[0x7075];
  if (upathField) {
    var extraReader = readerFor(upathField.value);
    },
// wrong version
if (extraReader.readInt(1) !== 1) {
    return null;
}

// the crc of the filename changed, this field is out of date.
if (crc32fn(this.fileName) !== extraReader.readInt(4)) {
    return null;
}

return utf8.utf8decode(extraReader.readData(upathField.length - 5));
}
return null;
},
/*
 * Find the unicode comment declared in the extra field, if any.
 * @return {String} the unicode comment, null otherwise.
 */
findExtraFieldUnicodeComment: function() {
    var ucommentField = this.extraFields[0x6375];
    if (ucommentField) {
        var extraReader = readerFor(ucommentField.value);

        // wrong version
        if (extraReader.readInt(1) !== 1) {
            return null;
        }

        // the crc of the comment changed, this field is out of date.
        if (crc32fn(this.fileComment) !== extraReader.readInt(4)) {
            return null;
        }

        return utf8.utf8decode(extraReader.readData(ucommentField.length - 5));
    }
    return null;
};
module.exports = ZipEntry;

//}}
var utf8 = require('./utf8');
var CompressedObject = require('./compressedObject');
var GenericWorker = require('./stream/GenericWorker');

/**
 * A simple object representing a file in the zip file.
 * @constructor
 * @param {string} name the name of the file
 * @param {String|ArrayBuffer|Uint8Array|Buffer} data the data
 * @param {Object} options the options of the file
 */
var ZipObject = function(name, data, options) {
    this.name = name;
    this.dir = options.dir;
    this.date = options.date;
    this.comment = options.comment;
    this.unixPermissions = options.unixPermissions;
    this.dosPermissions = options.dosPermissions;

    this._data = data;
    this._dataBinary = options.binary;
    // keep only the compression
    this.options = {
        compression : options.compression,
        compressionOptions : options.compressionOptions
    };
};

ZipObject.prototype = {
    /**
     * Create an internal stream for the content of this object.
     * @param {String} type the type of each chunk.
     * @return StreamHelper the stream.
     */
    internalStream: function(type) {
        var result = null, outputType = "string";
        try {
            if (!type) {
                throw new Error("No output type specified.");
            }
            outputType = type.toLowerCase();
            var askUnicodeString = outputType === "string" || outputType === "text";
            if (outputType === "binarystring" || outputType === "text") {
                outputType = "string";
            }
            result = this._decompressWorker();
            var isUnicodeString = !this._dataBinary;
        }
if (isUnicodeString && !askUnicodeString) {
    result = result.pipe(new utf8.Utf8EncodeWorker());
}
if (!isUnicodeString && askUnicodeString) {
    result = result.pipe(new utf8.Utf8DecodeWorker());
}
} catch (e) {
    result = new GenericWorker("error");
    result.error(e);
}

return new StreamHelper(result, outputType, ";");

/**
 * Prepare the content in the asked type.
 * @param {String} type the type of the result.
 * @param {Function} onUpdate a function to call on each internal update.
 * @return Promise the promise of the result.
 */
async: function (type, onUpdate) {
    return this.internalStream(type).accumulate(onUpdate);
},

/**
 * Prepare the content as a nodejs stream.
 * @param {String} type the type of each chunk.
 * @param {Function} onUpdate a function to call on each internal update.
 * @return Stream the stream.
 */
nodeStream: function (type, onUpdate) {
    return this.internalStream(type || "nodebuffer").toNodejsStream(onUpdate);
},

/**
 * Return a worker for the compressed content.
 * @private
 * @param {Object} compression the compression object to use.
 * @param {Object} compressionOptions the options to use when compressing.
 * @return Worker the worker.
 */
_compressWorker: function (compression, compressionOptions) {
    if (this._data instanceof CompressedObject &&
        this._data.compression.magic === compression.magic)
    {
        return this._data.getCompressedWorker();
    }
var removedMethods = ['asText', 'asBinary', 'asNodeBuffer', 'asUint8Array', 'asArrayBuffer'];
var removedFn = function () {
    throw new Error("This method has been removed in JSZip 3.0, please check the upgrade guide.");
};

for (var i = 0; i < removedMethods.length; i++) {
    ZipObject.prototype[removedMethods[i]] = removedFn,

module.exports = ZipObject;

녘

var scheduleDrain;

if (Mutation) {
    var called = 0;
    var observer = new Mutation(nextTick);
    var element = global.document.createTextNode('');
    observer.observe(element, {
        childList: true,
        subtree: true
    });
}

/*
* Return a worker for the decompressed content.
* @private
* @return Worker the worker.
*/

_decompressWorker : function () {
    if (this._data instanceof CompressedObject) {
        return this._data.getContentWorker();
    } else if (this._data instanceof GenericWorker) {
        return this._data;
    } else {
        return new DataWorker(this._data);
    }
};

var removedMethods = ['asText', 'asBinary', 'asNodeBuffer', 'asUint8Array', 'asArrayBuffer'];
var removedFn = function () {
    throw new Error("This method has been removed in JSZip 3.0, please check the upgrade guide.");
};

for (var i = 0; i < removedMethods.length; i++) {
    ZipObject.prototype[removedMethods[i]] = removedFn;
}

module.exports = ZipObject;

פועל

 evoke scheduleDrain;

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    var element = global.document.createTextNode('');
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        childList: true,
        subtree: true
    });
}

/*
* Return a worker for the decompressed content.
* @private
* @return Worker the worker.
*/

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    if (this._data instanceof CompressedObject) {
        return this._data.getContentWorker();
    } else if (this._data instanceof GenericWorker) {
        return this._data;
    } else {
        return new DataWorker(this._data);
    }
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    throw new Error("This method has been removed in JSZip 3.0, please check the upgrade guide.");
};

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    ZipObject.prototype[removedMethods[i]] = removedFn;
}

module.exports = ZipObject;

돕

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        subtree: true
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* @private
* @return Worker the worker.
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        return this._data;
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    }
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    throw new Error("This method has been removed in JSZip 3.0, please check the upgrade guide.");
};

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    ZipObject.prototype[removedMethods[i]] = removedFn;
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module.exports = ZipObject;

돕

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    var called = 0;
    var observer = new Mutation(nextTick);
    var element = global.document.createTextNode('');
    observer.observe(element, {
        childList: true,
        subtree: true
    });
}

/*
* Return a worker for the decompressed content.
* @private
* @return Worker the worker.
*/

_decompressWorker : function () {
    if (this._data instanceof CompressedObject) {
        return this._data.getContentWorker();
    } else if (this._data instanceof GenericWorker) {
        return this._data;
    } else {
        return new DataWorker(this._data);
    }
};

var removedMethods = ['asText', 'asBinary', 'asNodeBuffer', 'asUint8Array', 'asArrayBuffer'];
var removedFn = function () {
    throw new Error("This method has been removed in JSZip 3.0, please check the upgrade guide.");
};

for (var i = 0; i < removedMethods.length; i++) {
    ZipObject.prototype[removedMethods[i]] = removedFn;
}

module.exports = ZipObject;

돕

var scheduleDrain;

if (Mutation) {
    var called = 0;
    var observer = new Mutation(nextTick);
    var element = global.document.createTextNode('');
    observer.observe(element, {
characterData: true
});
scheduleDrain = function () {
    element.data = (called = ++called % 2);
};
} else if (!global.setImmediate && typeof global.MessageChannel !== 'undefined') {
    var channel = new global.MessageChannel();
    channel.port1.onmessage = nextTick;
    scheduleDrain = function () {
        channel.port2.postMessage(0);
    };
} else if ('document' in global && 'onreadystatechange' in global.document.createElement('script')) {
    scheduleDrain = function () {
        // Create a <script> element; its readystatechange event will be fired asynchronously once it is inserted
        // into the document. Do so, thus queuing up the task. Remember to clean up once it's been called.
        var scriptEl = global.document.createElement('script');
        scriptEl.onreadystatechange = function () {
            nextTick();
        }
        scriptEl.onreadystatechange = null;
        scriptEl.parentNode.removeChild(scriptEl);
        scriptEl = null;
    };
    global.document.documentElement.appendChild(scriptEl);
} else {
    scheduleDrain = function () {
        setTimeout(nextTick, 0);
    };
}
}

var draining;
var queue = [];
//named nextTick for less confusing stack traces
function nextTick() {
    draining = true;
    var i, oldQueue;
    var len = queue.length;
    while (len) {
        oldQueue = queue;
        queue = [];
        i = -1;
        while (++i < len) {
            oldQueue[i]();
        }
        len = queue.length;
    }
    draining = false;
}
draining = false;

module.exports = immediate;

function immediate(task) {
  if (queue.push(task) === 1 && !draining) {
    scheduleDrain();
  }
}
}

/* istanbul ignore next */
function INTERNAL() {
  var handlers = [];

  var REJECTED = ['REJECTED'];
  var FULFILLED = ['FULFILLED'];
  var PENDING = ['PENDING'];

  module.exports = Promise;

  function Promise(resolver) {
    if (typeof resolver !== 'function') {
      throw new TypeError('resolver must be a function');
    }
    this.state = PENDING;
    this.queue = [];
    this.outcome = void 0;
    if (resolver !== INTERNAL) {
      safelyResolveThenable(this, resolver);
    }
  }

  Promise.prototype['finally'] = function (callback) {
    if (typeof callback !== 'function') {
      return this;
    }
    var p = this.constructor;
    return this.then(resolve, reject);
  }

  function resolve(value) {

function yes () {
    return value;
}
return p.resolve(callback()).then(yes);
}
function reject(reason) {
    function no () {
        throw reason;
    }
    return p.resolve(callback()).then(no);
}

Promise.prototype["catch"] = function (onRejected) {
    return this.then(null, onRejected);
};

Promise.prototype.then = function (onFulfilled, onRejected) {
    if (typeof onFulfilled !== 'function' & this.state === FULFILLED ||
        typeof onRejected !== 'function' & this.state === REJECTED) {
        return this;
    } else {
        this.queue.push(new QueueItem(promise, onFulfilled, onRejected));
    }

    return promise;
};

function QueueItem(promise, onFulfilled, onRejected) {
    this.promise = promise;
    if (typeof onFulfilled === 'function') {
        this.onFulfilled = onFulfilled;
        this.callFulfilled = this.otherCallFulfilled;
    }
    if (typeof onRejected === 'function') {
        this.onRejected = onRejected;
        this.callRejected = this.otherCallRejected;
    }
}

QueueItem.prototype.callFulfilled = function (value) {
    handlers.resolve(this.promise, value);
};

QueueItem.prototype.callRejected = function (value) {
handlers.reject(this.promise, value);
);
QueueItem.prototype.otherCallRejected = function (value) {
    unwrap(this.promise, this.onRejected, value);
};

function unwrap(promise, func, value) {
    immediate(function () {
        var returnValue;
        try {
            returnValue = func(value);
        } catch (e) {
            return handlers.reject(promise, e);
        }
        if (returnValue === promise) {
            handlers.reject(promise, new TypeError('Cannot resolve promise with itself'));
        } else {
            handlers.resolve(promise, returnValue);
        }
    });
}

handlers.resolve = function (self, value) {
    var result = tryCatch(getThen, value);
    if (result.status === 'error') {
        return handlers.reject(self, result.value);
    }
    var thenable = result.value;
    if (thenable) {
        safelyResolveThenable(self, thenable);
    } else {
        self.state = FULFILLED;
        self.outcome = value;
        var i = -1;
        var len = self.queue.length;
        while (++i < len) {
            self.queue[i].callFulfilled(value);
        }
    }
    return self;
};

handlers.reject = function (self, error) {
    self.state = REJECTED;
    self.outcome = error;
    var i = -1;
    var len = self.queue.length;
    while (++i < len) {
        self.queue[i].callRejected(error);
    }
};
self.queue[i].callRejected(error);
}
return self;
};

function getThen(obj) {
  // Make sure we only access the accessor once as required by the spec
  var then = obj && obj.then;
  if (obj && (typeof obj === 'object' || typeof obj === 'function') && typeof then === 'function') {
    return function appyThen() {
      then.apply(obj, arguments);
    };
  }
}

function safelyResolveThenable(self, thenable) {
  // Either fulfill, reject or reject with error
  var called = false;
  function onError(value) {
    if (called) {
      return;
    }
    called = true;
    handlers.reject(self, value);
  }
  function onSuccess(value) {
    if (called) {
      return;
    }
    called = true;
    handlers.resolve(self, value);
  }
  function tryToUnwrap() {
    thenable(onSuccess, onError);
  }
  var result = tryCatch(tryToUnwrap);
  if (result.status === 'error') {
    onError(result.value);
  }
}

function tryCatch(func, value) {
  var out = {};
  try {
    out.value = func(value);
  }
  finally {
    // The try-catch block is absolute, and this always gets called
    handlers.notify(self, out.value);
  }
}
```javascript
out.status = 'success';
} catch (e) {
    out.status = 'error';
    out.value = e;
}
return out;
}

Promise.resolve = resolve;
function resolve(value) {
    if (value instanceof this) {
        return value;
    }
    return handlers.resolve(new this(INTERNAL), value);
}

Promise.reject = reject;
function reject(reason) {
    var promise = new this(INTERNAL);
    return handlers.reject(promise, reason);
}

Promise.all = all;
function all(iterable) {
    var self = this;
    if (Object.prototype.toString.call(iterable) !== '[object Array]') {
        return this.reject(new TypeError('must be an array'));
    }
    var len = iterable.length;
    var called = false;
    if (!len) {
        return this.resolve([]);
    }
    var values = new Array(len);
    var resolved = 0;
    var i = -1;
    var promise = new this(INTERNAL);
    while (++i < len) {
        allResolver(iterable[i], i);
    }
    return promise;
}

function allResolver(value, i) {
    self.resolve(value).then(resolveFromAll, function (error) {
        if (!called) {
            called = true;
            resolveFromAll(values, error);
        }
    });
}

function resolveFromAll(values, error) {
    promise.resolve(values)
    if (error) {
        promise.reject(error);  
    }
}
```

handlers.reject(promise, error);

});

function resolveFromAll(outValue) {
    values[i] = outValue;
    if (++resolved === len && !called) {
        called = true;
        handlers.resolve(promise, values);
    }
}

}

}

Promise.race = race;
function race(iterable) {
    var self = this;
    if (Object.prototype.toString.call(iterable) !== '[object Array]') {
        return this.reject(new TypeError('must be an array'));
    }

    var len = iterable.length;
    var called = false;
    if (!len) {
        return this.resolve([]);
    }

    var i = -1;
    var promise = new this(INTERNAL);

    while (++i < len) {
        resolver(iterable[i]);
    }

    return promise;

    function resolver(value) {
        self.resolve(value).then(function (response) {
            if (!called) {
                called = true;
                handlers.resolve(promise, response);
            }
        }, function (error) {
            if (!called) {
                called = true;
                handlers.reject(promise, error);
            }
        });
    }
}
```
// Top level file is just a mixin of submodules & constants
'use strict';

var assign    = require('./lib/utils/common').assign;
var deflate   = require('./lib/deflate');
var inflate   = require('./lib/inflate');
var constants = require('./lib/zlib/constants');

var pako = {};

assign(pako, deflate, inflate, constants);

module.exports = pako;

var zlib_deflate = require('./zlib/deflate');
var utils        = require('./utils/common');
var strings      = require('./utils/strings');
var msg          = require('./zlib/messages');
var ZStream      = require('./zlib/zstream');

var toString = Object.prototype.toString;

/*/ Public constants =========================================================*/
/*/ =------------------------------------------------------------------------*/

var Z_NO_FLUSH      = 0;
var Z_FINISH        = 4;

var Z_OK            = 0;
var Z_STREAM_END    = 1;
var Z_SYNC_FLUSH    = 2;
var Z_DEFAULT_COMPRESSION = -1;

var Z_DEFAULT_STRATEGY    = 0;
var Z_DEFLATED  = 8;

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

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/**
 * class Deflate
 *
 * Generic JS-style wrapper for zlib calls. If you don't need
 * streaming behaviour - use more simple functions: [[deflate]],
 * [[deflateRaw]] and [[gzip]].
 **/

;/* internal
 * Deflate.chunks -> Array
 *
 * Chunks of output data, if [[Deflate#onData]] not overridden.
 **/

;/*
 * Deflate.result -> Uint8Array|Array
 *
 * Compressed result, generated by default [[Deflate#onData]]
 * and [[Deflate#onEnd]] handlers. Filled after you push last chunk
 * (call [[Deflate#push]] with 'Z_FINISH' / 'true' param) or if you
 * push a chunk with explicit flush (call [[Deflate#push]] with
 * 'Z_SYNC_FLUSH' param).
 **/

/"
 * Deflate.err -> Number
 *
 * Error code after deflate finished. 0 (Z_OK) on success.
 * You will not need it in real life, because deflate errors
 * are possible only on wrong options or bad `onData` / `onEnd`
 * custom handlers.
 **/

/**
 * Deflate.msg -> String
 *
 * Error message, if [[Deflate.err]] !== 0
 **/

/**
 * new Deflate(options)
 * - options (Object): zlib deflate options.
 *
 * Creates new deflator instance with specified params. Throws exception
 * on bad params. Supported options:
 * *
 * - `level`
- `windowBits`
- `memLevel`
- `strategy`
- `dictionary`

* [http://zlib.net/manual.html#Advanced](http://zlib.net/manual.html#Advanced)
* for more information on these.

* Additional options, for internal needs:

- `chunkSize` - size of generated data chunks (16K by default)
- `raw` (Boolean) - do raw deflate
- `gzip` (Boolean) - create gzip wrapper
- `to` (String) - if equal to 'string', then result will be "binary string"
  (each char code [0..255])
- `header` (Object) - custom header for gzip
  - `text` (Boolean) - true if compressed data believed to be text
  - `time` (Number) - modification time, unix timestamp
  - `os` (Number) - operation system code
  - `extra` (Array) - array of bytes with extra data (max 65536)
  - `name` (String) - file name (binary string)
  - `comment` (String) - comment (binary string)
  - `hcrc` (Boolean) - true if header crc should be added

### Example:

```javascript
var pako = require('pako')

, chunk1 = Uint8Array([1,2,3,4,5,6,7,8,9])
, chunk2 = Uint8Array([10,11,12,13,14,15,16,17,18,19]);

var deflate = new pako.Deflate({ level: 3});

deflate.push(chunk1, false);
deflate.push(chunk2, true); // true -> last chunk

if (deflate.err) { throw new Error(deflate.err); }

console.log(deflate.result);
```

function Deflate(options) {
  if (!(!(this instanceof Deflate)) return new Deflate(options);

  this.options = utils.assign({
    level: Z_DEFAULT_COMPRESSION,
    method: Z_DEFLATED,
    chunkSize: 16384,
  });
``
windowBits: 15,
memLevel: 8,
strategy: Z_DEFAULT_STRATEGY,
to: ''}, options || {});

var opt = this.options;

if (opt.raw && (opt.windowBits > 0)) {
    opt.windowBits = -opt.windowBits;
}

else if (opt.gzip && (opt.windowBits > 0) && (opt.windowBits < 16)) {
    opt.windowBits += 16;
}

this.err = 0;  // error code, if happens (0 = Z_OK)
this.msg = '';  // error message
this.ended = false;  // used to avoid multiple onEnd() calls
this.chunks = [];  // chunks of compressed data

this.strm = new ZStream();
this.strm.avail_out = 0;

var status = zlib_deflate.deflateInit2(
    this.strm,
    opt.level,
    opt.method,
    opt.windowBits,
    opt.memLevel,
    opt.strategy
);

if (status !== Z_OK) {
    throw new Error(msg[status]);
}

if (opt.header) {
    zlib_deflate.deflateSetHeader(this.strm, opt.header);
}

if (opt.dictionary) {
    var dict;
    // Convert data if needed
    if (typeof opt.dictionary === 'string') {
        // If we need to compress text, change encoding to utf8.
        dict = strings.string2buf(opt.dictionary);
    } else if (toString.call(opt.dictionary) === '[object ArrayBuffer]') {

dict = new Uint8Array(opt.dictionary);
} else {
    dict = opt.dictionary;
}

status = zlib_deflate.deflateSetDictionary(this.strm, dict);

if (status !== Z_OK) {
    throw new Error(msg[status]);
}

this._dict_set = true;
}
}

/**
* Deflate#push(data[, mode]) -> Boolean
* - data (Uint8Array|Array|ArrayBuffer|String): input data. Strings will be
*   converted to utf8 byte sequence.
* - mode (Number|Boolean): 0..6 for corresponding Z_NO_FLUSH..Z_TREE modes.
*   See constants. Skipped or `false` means Z_NO_FLUSH, `true` meansh Z_FINISH.
*   
* Sends input data to deflate pipe, generating [[Deflate#onData]] calls with
* new compressed chunks. Returns `true` on success. The last data block must have
* mode Z_FINISH (or `true`). That will flush internal pending buffers and call
* [[Deflate#onEnd]]. For interim explicit flushes (without ending the stream) you
* can use mode Z_SYNC_FLUSH, keeping the compression context.
* 
* On fail call [[Deflate#onEnd]] with error code and return false.
* 
* We strongly recommend to use `Uint8Array` on input for best speed (output
* array format is detected automatically). Also, don't skip last param and always
* use the same type in your code (boolean or number). That will improve JS speed.
* 
* For regular `Array`-s make sure all elements are [0..255].
* 
* ####### Example
* 
* ```javascript
* push(chunk, false); // push one of data chunks
* ...
* push(chunk, true); // push last chunk
* ```
*/
Deflate.prototype.push = function (data, mode) {
    var strm = this.strm;
    var chunkSize = this.options.chunkSize;
    var status, _mode;
if (this.ended) { return false; }

_mode = (mode === ~mode) ? mode : ((mode === true) ? Z_FINISH : Z_NO_FLUSH);

// Convert data if needed
if (typeof data === 'string') {
  // If we need to compress text, change encoding to utf8.
  strm.input = strings.string2buf(data);
} else if (toString.call(data) === '[object ArrayBuffer]') {
  strm.input = new Uint8Array(data);
} else {
  strm.input = data;
}

strm.next_in = 0;
strm.avail_in = strm.input.length;

do {
  if (strm.avail_out === 0) {
    strm.output = new utils.Buf8(chunkSize);
    strm.next_out = 0;
    strm.avail_out = chunkSize;
  }
  status = zlib_deflate.deflate(strm, _mode);    /* no bad return value */

  if (status !== Z_STREAM_END && status !== Z_OK) {
    this.onEnd(status);
    this.ended = true;
    return false;
  }

  if (strm.avail_out === 0 || (strm.avail_in === 0 && (_mode === Z_FINISH || _mode === Z_SYNC_FLUSH))) {
    if (this.options.to === 'string') {
      this.onData(strings.buf2binstring(utils.shrinkBuf(strm.output, strm.next_out)));
    } else {
      this.onData(utils.shrinkBuf(strm.output, strm.next_out));
    }
  }
} while ((strm.avail_in > 0 || strm.avail_out === 0) && status !== Z_STREAM_END);

// Finalize on the last chunk.
if (_mode === Z_FINISH) {
  status = zlib_deflate.deflateEnd(this.strm);
  this.onEnd(status);
  this.ended = true;
  return status === Z_OK;
}
// callback interim results if Z_SYNC_FLUSH.
if (_mode === Z_SYNC_FLUSH) {
  this.onEnd(Z_OK);
  strmavail_out = 0;
  return true;
}

return true;
};

/**
 * Deflate#onData(chunk) -> Void
 * - chunk (Uint8Array|Array|String): output data. Type of array depends
 *   on js engine support. When string output requested, each chunk
 *   will be string.
 * *
 * By default, stores data blocks in `chunks[]` property and glue
 * those in `onEnd`. Override this handler, if you need another behaviour.
 **/
Deflate.prototype.onData = function (chunk) {
  this.chunks.push(chunk);
};

/**
 * Deflate#onEnd(status) -> Void
 * - status (Number): deflate status. 0 (Z_OK) on success,
 *   other if not.
 * *
 * Called once after you tell deflate that the input stream is
 * complete (Z_FINISH) or should be flushed (Z_SYNC_FLUSH)
 * or if an error happened. By default - join collected chunks,
 * free memory and fill `results` / `err` properties.
 **/
Deflate.prototype.onEnd = function (status) {
  // On success - join
  if (status === Z_OK) {
    if (this.options.to === 'string') {
      this.result = this.chunks.join('');
    } else {
      this.result = utils.flattenChunks(this.chunks);
    }
  }
  this.chunks = [];
  this.err = status;
  this.msg = this.strm.msg;
};
/**
 * deflate(data[, options]) -> Uint8Array|Array|String
 * - data (Uint8Array|Array|String): input data to compress.
 * - options (Object): zlib deflate options.
 *  
 * Compress `data` with deflate algorithm and `options`.
 *  
 * Supported options are:
 *  
 * - level
 * - windowBits
 * - memLevel
 * - strategy
 * - dictionary
 *  
 * [http://zlib.net/manual.html#Advanced](http://zlib.net/manual.html#Advanced)
 * for more information on these.
 *  
 * Sugar (options):
 *  
 * - `raw` (Boolean) - say that we work with raw stream, if you don't wish to specify
 * negative windowBits implicitly.
 * - `to` (String) - if equal to 'string', then result will be "binary string"
 * (each char code [0..255])
 *  
 * ###### Example:
 *  
 * ```javascript
 * var pako = require('pako')
 * , data = Uint8Array([1,2,3,4,5,6,7,8,9]);
 *  
 * console.log(pako.deflate(data));
 * ```
 *  
 */

function deflate(input, options) {
    var deflator = new Deflate(options);
    deflator.push(input, true);
    // That will never happens, if you don't cheat with options :) 
    if (deflator.err) { throw deflator.msg || msg[deflator.err]; } 

    return deflator.result;
}
```javascript
/**
* deflateRaw(data[, options]) -> Uint8Array|Array|String
* - data (Uint8Array|Array|String): input data to compress.
* - options (Object): zlib deflate options.
*
* The same as [[deflate]], but creates raw data, without wrapper
* (header and adler32 crc).
**/
function deflateRaw(input, options) {
  options = options || {};
  options.raw = true;
  return deflate(input, options);
}

/**
* gzip(data[, options]) -> Uint8Array|Array|String
* - data (Uint8Array|Array|String): input data to compress.
* - options (Object): zlib deflate options.
*
* The same as [[deflate]], but create gzip wrapper instead of
* deflate one.
**/
function gzip(input, options) {
  options = options || {};
  options.gzip = true;
  return deflate(input, options);
}

exports.Deflate = Deflate;
exports.deflate = deflate;
exports.deflateRaw = deflateRaw;
exports.gzip = gzip;
```

var toString = Object.prototype.toString;

/**
 * class Inflate
 *
 * Generic JS-style wrapper for zlib calls. If you don't need
 * streaming behaviour - use more simple functions: [[inflate]]
 * and [[inflateRaw]].
 */

/* internal
 * inflate.chunks -> Array
 *
 * Chunks of output data, if [[Inflate#onData]] not overridden.
 */

/**
 * Inflate.result -> Uint8Array|Array|String
 *
 * Uncompressed result, generated by default [[Inflate#onData]]
 * and [[Inflate#onEnd]] handlers. Filled after you push last chunk
 * (call [[Inflate#push]] with `Z_FINISH` / `true` param) or if you
 * push a chunk with explicit flush (call [[Inflate#push]] with
 * `Z_SYNC_FLUSH` param).
 */

/**
 * Inflate.err -> Number
 *
 * Error code after inflate finished. 0 (Z_OK) on success.
 * Should be checked if broken data possible.
 */

/**
 * Inflate.msg -> String
 *
 * Error message, if [[Inflate.err]] != 0
 */

/**
 * new Inflate(options)
 * - options (Object): zlib inflate options.
 *
 * Creates new inflator instance with specified params. Throws exception
 * on bad params. Supported options:
 * - `windowBits`
* - `dictionary`
* [http://zlib.net/manual.html#Advanced](http://zlib.net/manual.html#Advanced)
* for more information on these.
*
* Additional options, for internal needs:
*
* - `chunkSize` - size of generated data chunks (16K by default)
* - `raw` (Boolean) - do raw inflate
* - `to` (String) - if equal to 'string', then result will be converted
* from utf8 to utf16 (javascript) string. When string output requested,
* chunk length can differ from `chunkSize`, depending on content.
*
* By default, when no options set, autodetect deflate/gzip data format via
* wrapper header.
*
* ###### Example:
*
* ```javascript
var pako = require('pako')
, chunk1 = Uint8Array([1,2,3,4,5,6,7,8,9])
, chunk2 = Uint8Array([10,11,12,13,14,15,16,17,18,19]);

var inflate = new pako.Inflate({ level: 3});

inflate.push(chunk1, false);
inflate.push(chunk2, true);  // true -> last chunk

if (inflate.err) { throw new Error(inflate.err); }

console.log(inflate.result);
```
**

```javascript
function Inflate(options) {
if (!(this instanceof Inflate)) return new Inflate(options);

this.options = util.assign(
  chunkSize: 16384,
  windowBits: 0,
  to: "
}, options || {});

var opt = this.options;

// Force window size for `raw` data, if not set directly,
// because we have no header for autodetect.
if (opt.raw && (opt.windowBits >= 0) && (opt.windowBits < 16)) {
  opt.windowBits = -opt.windowBits;
}
if (opt.windowBits == 0) { opt.windowBits = -15; }

// If `windowBits` not defined (and mode not raw) - set autodetect flag for gzip/deflate
if ((opt.windowBits >= 0) && (opt.windowBits < 16) &&
    !(options && options.windowBits)) {
    opt.windowBits += 32;
}

// Gzip header has no info about windows size, we can do autodetect only
// for deflate. So, if window size not set, force it to max when gzip possible
if ((opt.windowBits > 15) && (opt.windowBits < 48)) {
    // bit 3 (16) -> gzipped data
    // bit 4 (32) -> autodetect gzip/deflate
    if ((opt.windowBits & 15) === 0) {
        opt.windowBits |= 15;
    }
}

this.err = 0;      // error code, if happens (0 = Z_OK)
this.msg = "";     // error message
this.ended = false;  // used to avoid multiple onEnd() calls
this.chunks = [];     // chunks of compressed data
this strm = new ZStream();
this strm.avail_out = 0;

var status = zlib_inflate.inflateInit2(
    this strm,
    opt.windowBits
);

if (status !== c.Z_OK) {
    throw new Error(msg[status]);
}

this.header = new GZheader();

zlib_inflate.inflateGetHeader(this strm, this.header);

/**
 * Inflate#push(data[, mode]) -> Boolean
 * - data (Uint8Array|Array|ArrayBuffer|String): input data
 * - mode (Number|Boolean): 0..6 for corresponding Z_NO_FLUSH..Z_TREE modes.
 * See constants. Skipped or `false` means Z_NO_FLUSH, `true` meansh Z_FINISH.
 * Sends input data to inflate pipe, generating [[Inflate#onData]] calls with
new output chunks. Returns `true` on success. The last data block must have
mode Z_FINISH (or `true`). That will flush internal pending buffers and call
[[Inflate#onEnd]]. For interim explicit flushes (without ending the stream) you
can use mode Z_SYNC_FLUSH, keeping the decompression context.

On fail call [[Inflate#onEnd]] with error code and return false.

We strongly recommend to use `Uint8Array` on input for best speed (output
format is detected automatically). Also, don't skip last param and always
use the same type in your code (boolean or number). That will improve JS speed.

For regular `Array`-s make sure all elements are [0..255].

```
##### Example

```javascript
* push(chunk, false); // push one of data chunks
  ...
* push(chunk, true); // push last chunk
  ```
**

```javascript
Inflate.prototype.push = function (data, mode) { 
  var strm = this.strm;
  var chunkSize = this.options.chunkSize;
  var dictionary = this.options.dictionary;
  var status, _mode;
  var next_out_utf8, tail, utf8str;
  var dict;

  // Flag to properly process Z_BUF_ERROR on testing inflate call
  // when we check that all output data was flushed.
  var allowBufError = false;

  if (this.ended) { return false; }
  _mode = (mode === ~~mode) ? mode : ((mode === true) ? c.Z_FINISH : c.Z_NO_FLUSH);

  // Convert data if needed
  if (typeof data === 'string') {
    // Only binary strings can be decompressed on practice
    strm.input = strings.binstring2buf(data);
  } else if (toString.call(data) === '[object ArrayBuffer]') {
    strm.input = new Uint8Array(data);
  } else {
    strm.input = data;
  }

  strm.next_in = 0;
  strm.avail_in = strm.input.length;
```
do {
    if (strm.avail_out === 0) {
        strm.output = new utils.Buf8(chunkSize);
        strm.next_out = 0;
        strm.avail_out = chunkSize;
    }

    status = zlib_inflate.inflate(strm, c.Z_NO_FLUSH);  /* no bad return value */

    if (status === c.Z_NEED_DICT && dictionary) {
        // Convert data if needed
        if (typeof dictionary === 'string') {
            dict = strings.string2buf(dictionary);
        } else if (toString.call(dictionary) === '[object ArrayBuffer]') {
            dict = new Uint8Array(dictionary);
        } else {
            dict = dictionary;
        }

        status = zlib_inflate.inflateSetDictionary(this.strm, dict);
    }

    if (status === c.Z_BUF_ERROR && allowBufError === true) {
        status = c.Z_OK;
        allowBufError = false;
    }

    if (status !== c.Z_STREAM_END && status !== c.Z_OK) {
        this.onEnd(status);
        this.ended = true;
        return false;
    }

    if (strm.next_out) {
        if (strm.avail_out === 0 || status === c.Z_STREAM_END || (strm.avail_in === 0 && (_mode === c.Z_FINISH
            || _mode === c.Z_SYNC_FLUSH))) {
            if (this.options.to === 'string') {
                next_out_utf8 = strings.utf8border(strm.output, strm.next_out);
                tail = strm.next_out - next_out_utf8;
                utf8str = strings.buf2string(strm.output, next_out_utf8);

                // move tail
                strm.next_out = tail;
            }
        }
    }
}

}
 strm.avail_out = chunkSize - tail;
    if (tail) { utils.arraySet(strm.output, strm.output, next_out_utf8, tail, 0); }

    this.onData(utf8str);

} else {
    this.onData(utils.shrinkBuf(strm.output, strm.next_out));
}

// When no more input data, we should check that internal inflate buffers
// are flushed. The only way to do it when avail_out = 0 - run one more
// inflate pass. But if output data not exists, inflate return Z_BUF_ERROR.
// Here we set flag to process this error properly.
//
// NOTE. Deflate does not return error in this case and does not needs such
// logic.
if (strm.avail_in === 0 && strm.avail_out === 0) {
    allowBufError = true;
}

} while ((strm.avail_in > 0 || strm.avail_out === 0) && status !== c.Z_STREAM_END);

if (status === c.Z_STREAM_END) {
    _mode = c.Z_FINISH;

    status = zlib_inflate.inflateEnd(this.strm);
    this.onEnd(status);
    this.ended = true;
    return status === c.Z_OK;
}

// callback interim results if Z_SYNC_FLUSH.
if (_mode === c.Z_SYNC_FLUSH) {
    this.onEnd(c.Z_OK);
    strm.avail_out = 0;
    return true;
}

return true;

/**

*/
* Inflate#onData(chunk) -> Void
* - chunk (Uint8Array|Array|String): output data. Type of array depends
  on js engine support. When string output requested, each chunk
  will be string.
* By default, stores data blocks in `chunks[]` property and glue
  those in `onEnd`. Override this handler, if you need another behaviour.
**/
Inflate.prototype.onData = function (chunk) {
  this.chunks.push(chunk);
};

/**
* Inflate#onEnd(status) -> Void
* - status (Number): inflate status. 0 (Z_OK) on success,
  * other if not.
* Called either after you tell inflate that the input stream is
  * complete (Z_FINISH) or should be flushed (Z_SYNC_FLUSH)
  * or if an error happened. By default - join collected chunks,
  * free memory and fill `results` / `err` properties.
**/
Inflate.prototype.onEnd = function (status) {
  // On success - join
  if (status === c.Z_OK) {
    if (this.options.to === 'string') {
      // Glue & convert here, until we teach pako to send
      // utf8 aligned strings to onData
      this.result = this.chunks.join('');
    } else {
      this.result = utils.flattenChunks(this.chunks);
    }
    this.chunks = [];
  }
  this.err = status;
  this.msg = this.strm.msg;
};

/**
* inflate(data[, options]) -> Uint8Array|Array|String
* - data (Uint8Array|Array|String): input data to decompress.
* - options (Object): zlib inflate options.
* Decompress `data` with inflate/ungzip and `options`. Autodetect
* format via wrapper header by default. That's why we don't provide
* separate `ungzip` method.
* Supported options are:
* - windowBits
* [http://zlib.net/manual.html#Advanced](http://zlib.net/manual.html#Advanced) for more information.
* Sugar (options):
* - `raw` (Boolean) - say that we work with raw stream, if you don't wish to specify
  * negative windowBits implicitly.
* - `to` (String) - if equal to 'string', then result will be converted
  * from utf8 to utf16 (javascript) string. When string output requested,
  * chunk length can differ from `chunkSize`, depending on content.
* 
* ##### Example:
* ```javascript
* var pako = require('pako')
* , input = pako.deflate([1,2,3,4,5,6,7,8,9])
* , output;
* 
* try {
*   output = pako.inflate(input);
* } catch (err)
*   console.log(err);
* }
* ```
*/

```javascript
function inflate(input, options) {
  var inflator = new Inflate(options);
  inflator.push(input, true);

  // That will never happens, if you don't cheat with options :)
  if (inflator.err) { throw inflator.msg || msg[inflator.err]; }

  return inflator.result;
}
```

```javascript
/**
* inflateRaw(data[, options]) -> Uint8Array|Array/String
* - data (Uint8Array|Array|String): input data to decompress.
* - options (Object): zlib inflate options.
* ```
** The same as [inflate], but creates raw data, without wrapper
* (header and adler32 crc).
**/
function inflateRaw(input, options) {
    options = options || {};
    options.raw = true;
    return inflate(input, options);
}

/**
  * ungzip(data[, options]) -> Uint8Array|Array|String
  * - data (Uint8Array|Array|String): input data to decompress.
  * - options (Object): zlib inflate options.
  *
  * Just shortcut to [inflate], because it autodetects format
  * by header.content. Done for convenience.
  **/
exports.Inflate = Inflate;
exports.inflate = inflate;
exports.inflateRaw = inflateRaw;
exports.ungzip = inflate;

}, {"./utils/common":41,"./utils/strings":42,"./zlib/constants":44,"./zlib/gzheader":47,"./zlib/inflate":49,"./zlib/messages":51,"./zlib/zstream":53}],41:

'use strict';

var TYPED_OK = (typeof Uint8Array !== 'undefined') &&
    (typeof Uint16Array !== 'undefined') &&
    (typeof Int32Array !== 'undefined');

exports.assign = function (obj /*from1, from2, from3, ...*/) {
    var sources = Array.prototype.slice.call(arguments, 1);
    while (sources.length) {
        var source = sources.shift();
        if (!source) { continue; }

        if (typeof source !== 'object') {
            throw new TypeError(source + 'must be non-object');
        }

        for (var p in source) {
            if (source.hasOwnProperty(p)) {
                obj[p] = source[p];
            }
        }
    }
}
// reduce buffer size, avoiding mem copy
exports.shrinkBuf = function (buf, size) {
    if (buf.length === size) { return buf; }
    if (buf.subarray) { return buf.subarray(0, size); }
    buf.length = size;
    return buf;
};

var fnTyped = {
    arraySet: function (dest, src, src_offs, len, dest_offs) {
        if (src.subarray && dest.subarray) {
            dest.set(src.subarray(src_offs, src_offs + len), dest_offs);
            return;
        }
        // Fallback to ordinary array
        for (var i = 0; i < len; i++) {
            dest[dest_offs + i] = src[src_offs + i];
        }
    },
    // Join array of chunks to single array.
    flattenChunks: function (chunks) {
        var i, l, len, pos, chunk, result;

        // calculate data length
        len = 0;
        for (i = 0, l = chunks.length; i < l; i++) {
            len += chunks[i].length;
        }

        // join chunks
        result = new Uint8Array(len);
        pos = 0;
        for (i = 0, l = chunks.length; i < l; i++) {
            chunk = chunks[i];
            result.set(chunk, pos);
            pos += chunk.length;
        }

        return result;
    }
}
var fnUntyped = {
  arraySet: function (dest, src, src_offs, len, dest_offs) {
    for (var i = 0; i < len; i++) {
      dest[dest_offs + i] = src[src_offs + i];
    }
  },
  // Join array of chunks to single array.
  flattenChunks: function (chunks) {
    return [].concat.apply([], chunks);
  }
};

// Enable/Disable typed arrays use, for testing
// exports.setTyped = function (on) {
if (on) {
  exports.Buf8  = Uint8Array;
  exports.Buf16 = Uint16Array;
  exports.Buf32 = Int32Array;
  exports.assign(exports, fnTyped);
} else {
  exports.Buf8  = Array;
  exports.Buf16 = Array;
  exports.Buf32 = Array;
  exports.assign(exports, fnUntyped);
}
exports.setTyped(TYPED_OK);

// String encode/decode helpers
'use strict';
var utils = require('./common');

// Quick check if we can use fast array to bin string conversion
//
// - apply(Array) can fail on Android 2.2
// - apply(Uint8Array) can fail on iOS 5.1 Safari
// var STR_APPLY_OK = true;
var STR_APPLY_UIA_OK = true;

try { String.fromCharCode.apply(null, [0]); } catch (_) { STR_APPLY_OK = false; }
try { String.fromCharCode.apply(null, new Uint8Array(1)); } catch (_) { STR_APPLY_UIA_OK = false; }

// Table with utf8 lengths (calculated by first byte of sequence)
// Note, that 5 & 6-byte values and some 4-byte values can not be represented in JS,
// because max possible codepoint is 0x10ffff
var _utf8len = new utils.Buf8(256);
for (var q = 0; q < 256; q++) {
}
_utf8len[254] = _utf8len[254] = 1; // Invalid sequence start

// convert string to array (typed, when possible)
exports.string2buf = function (str) {
  var buf, c, c2, m_pos, i, str_len = str.length, buf_len = 0;

  // count binary size
  for (m_pos = 0; m_pos < str_len; m_pos++) {
    c = str.charCodeAt(m_pos);
    if ((c & 0xfc00) === 0xd800 && (m_pos + 1 < str_len)) {
      c2 = str.charCodeAt(m_pos + 1);
      if ((c2 & 0xfc00) === 0xdc00) {
        c = 0x10000 + ((c - 0xd800) << 10) + (c2 - 0xdc00);
        m_pos++;
      }
    }
    buf_len += c < 0x80 ? 1 : c < 0x800 ? 2 : c < 0x10000 ? 3 : 4;
  }

  // allocate buffer
  buf = new utils.Buf8(buf_len);

  // convert
  for (i = 0, m_pos = 0; i < buf_len; m_pos++) {
    c = str.charCodeAt(m_pos);
    if ((c & 0xfc00) === 0xd800 && (m_pos + 1 < str_len)) {
      c2 = str.charCodeAt(m_pos + 1);
      if ((c2 & 0xfc00) === 0xdc00) {
        c = 0x10000 + ((c - 0xd800) << 10) + (c2 - 0xdc00);
        m_pos++;
      }
    }
    if (c < 0x80) {
      /* one byte */
buf[i++] = c;
} else if (c < 0x8000) {
    /* two bytes */
    buf[i++] = 0xC0 | (c >>> 6);
    buf[i++] = 0x80 | (c & 0x3f);
} else if (c < 0x10000) {
    /* three bytes */
    buf[i++] = 0xE0 | (c >>> 12);
    buf[i++] = 0x80 | (c >>> 6 & 0x3f);
    buf[i++] = 0x80 | (c & 0x3f);
} else {
    /* four bytes */
    buf[i++] = 0xf0 | (c >>> 18);
    buf[i++] = 0x80 | (c >>> 12 & 0x3f);
    buf[i++] = 0x80 | (c >>> 6 & 0x3f);
    buf[i++] = 0x80 | (c & 0x3f);
}
}

return buf;

// Helper (used in 2 places)
function buf2binstring(buf, len) {
    // use fallback for big arrays to avoid stack overflow
    if (len < 65537) {
        if ((buf.subarray && STR_APPLY_UIA_OK) || (!buf.subarray && STR_APPLY_OK)) {
            return String.fromCharCode.apply(null, utils.shrinkBuf(buf, len));
        }
    }

    var result = "";
    for (var i = 0; i < len; i++) {
        result += String.fromCharCode(buf[i]);
    }
    return result;
}

// Convert byte array to binary string
exports.buf2binstring = function (buf) {
    return buf2binstring(buf, buf.length);
};

// Convert binary string (typed, when possible)
exports.binstring2buf = function (str) {
    var buf = new utils.Buf8(str.length);
for (var i = 0, len = buf.length; i < len; i++) {
    buf[i] = str.charCodeAt(i);
}
return buf;
};

// convert array to string
exports.buf2string = function (buf, max) {
    var i, out, c, c_len;
    var len = max || buf.length;

    // Reserve max possible length (2 words per char)
    // NB: by unknown reasons, Array is significantly faster for
    //     String.fromCharCode.apply than Uint16Array.
    var utf16buf = new Array(len * 2);

    for (out = 0, i = 0; i < len;) {
        c = buf[i++];
        // quick process ascii
        if (c < 0x80) { utf16buf[out++] = c; continue; }

        c_len = _utf8len[c];
        // skip 5 & 6 byte codes
        if (c_len > 4) { utf16buf[out++] = 0xfffd; i += c_len - 1; continue; }

        // apply mask on first byte
        c &= c_len === 2 ? 0x1f : c_len === 3 ? 0x0f : 0x07;
        // join the rest
        while (c_len > 1 && i < len) {
            c = (c << 6) | (buf[i++] & 0x3f);
            c_len--;
        }

        // terminated by end of string?
        if (c_len > 1) { utf16buf[out++] = 0xfffd; continue; }

        if (c < 0x10000) {
            utf16buf[out++] = c;
        } else {
            c -= 0x10000;
            utf16buf[out++] = 0xd800 | ((c >> 10) & 0x3ff);
            utf16buf[out++] = 0xdc00 | (c & 0x3ff);
        }
    }

    return buf2binstring(utf16buf, out);
};
// Calculate max possible position in utf8 buffer,
// that will not break sequence. If that's not possible
// - (very small limits) return max size as is.
//
// buf[] - utf8 bytes array
// max   - length limit (mandatory);
exports.utf8border = function (buf, max) {
    var pos;

    max = max || buf.length;
    if (max > buf.length) { max = buf.length; }

    // go back from last position, until start of sequence found
    pos = max - 1;
    while (pos >= 0 && (buf[pos] & 0xC0) === 0x80) { pos--; }

    // Fuckup - very small and broken sequence,
    // return max, because we should return something anyway.
    if (pos < 0) { return max; }

    // If we came to start of buffer - that means vuffer is too small,
    // return max too.
    if (pos === 0) { return max; }

    return (pos + _utf8len[buf[pos]] > max) ? pos : max;
};

// Note: adler32 takes 12% for level 0 and 2% for level 6.
// It doesn't worth to make additional optimizationa as in original.
// Small size is preferable.

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function adler32(adler, buf, len, pos) {
    var s1 = (adler & 0xffff) | 0,
        s2 = ((adler >>> 16) & 0xffff) | 0,
        n = 0;

    while (len !== 0) {
        // Set limit ~ twice less than 5552, to keep
        // s2 in 31-bits, because we force signed ints.
        // in other case %= will fail.
        n = len > 2000 ? 2000 : len;
        len -= n;

        do {
            s1 = (s1 + buf[pos++]) | 0;
            s2 = (s2 + s1) | 0;
        } while (--n);

        s1 %= 65521;
        s2 %= 65521;
    }

    return (s1 | (s2 << 16)) | 0;
}

module.exports = adler32;

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module.exports = {

    /* Allowed flush values; see deflate() and inflate() below for details */
    Z_NO_FLUSH: 0,
    Z_PARTIAL_FLUSH: 1,
    Z_SYNC_FLUSH: 2,
    Z_FULL_FLUSH: 3,
    Z_FINISH: 4,
    Z_BLOCK: 5,
    Z_TREES: 6,

    /* Return codes for the compression/decompression functions. Negative values
    * are errors, positive values are used for special but normal events. */
    Z_OK: 0,
    Z_STREAM_END: 1,
    Z_NEED_DICT: 2,
    Z_ERRNO: -1,
    Z_STREAM_ERROR: -2,
    Z_DATA_ERROR: -3,
    Z_MEM_ERROR: -4,
    Z_BUF_ERROR: -5,
    Z_VERSION_ERROR: -6,

    /* compression levels */
    Z_NO_COMPRESSION: 0,
    Z_BEST_SPEED: 1,
    Z_BEST_COMPRESSION: 9,
    Z_DEFAULT_COMPRESSION: -1,
    Z_FILTERED: 1,
    Z_HUFFMAN_ONLY: 2,
    Z_RLE: 3,
    Z_FIXED: 4,
    Z_DEFAULT_STRATEGY: 0,

    /* Possible values of the data_type field (though see inflate()) */
    Z_BINARY: 0,
    Z_TEXT: 1,
/** The deflate compression method */
Z_DEFLATED: 8
//Z_NULL: null // Use -1 or null inline, depending on var type
};

},[],45:[function(require,module,exports){
 'use strict';

 // Note: we can't get significant speed boost here.
 // So write code to minimize size - no pregenerated tables
 // and array tools dependencies.

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 // Use ordinary array, since untyped makes no boost here
 function makeTable() {
 var c, table = [];

 for (var n = 0; n < 256; n++) {
 c = n;
 for (var k = 0; k < 8; k++) {
 c = ((c & 1) ? (0xEDB88320 ^ (c >>> 1)) : (c >>> 1));
 }
 table[n] = c;
 }

 return table;
}
var crcTable = makeTable();

function crc32(crc, buf, len, pos) {
    var t = crcTable,
        end = pos + len;

    crc ^= -1;

    for (var i = pos; i < end; i++) {
        crc = (crc >>> 8) ^ t[(crc ^ buf[i]) & 0xFF];
    }

    return (crc ^ (-1)); // >>> 0;
}

module.exports = crc32;

var utils   = require('../utils/common');
var trees   = require('./trees');
var adler32 = require('./adler32');
var crc32   = require('./crc32');
var msg     = require('./messages');
/* Public constants =========================================================*/
/* ===========================================================================*/
/* Allowed flush values; see deflate() and inflate() below for details */
var Z_NO_FLUSH = 0;
var Z_PARTIAL_FLUSH = 1;
//var Z_SYNC_FLUSH = 2;
var Z_FULL_FLUSH = 3;
var Z_FINISH = 4;
var Z_BLOCK = 5;
//var Z_TREES = 6;

/* Return codes for the compression/decompression functions. Negative values *
 are errors, positive values are used for special but normal events. */
var Z_OK = 0;
var Z_STREAM_END = 1;
//var Z_NEED_DICT = 2;
//var Z_ERRNO = -1;
var Z_STREAM_ERROR = -2;
var Z_DATA_ERROR = -3;
//var Z_MEM_ERROR = -4;
var Z_BUF_ERROR = -5;
//var Z_VERSION_ERROR = -6;

/* compression levels */
//var Z_NO_COMPRESSION = 0;
//var Z_BEST_SPEED = 1;
//var Z_BEST_COMPRESSION = 9;
var Z_DEFAULT_COMPRESSION = -1;

var Z_FILTERED = 1;
var Z_HUFFMAN_ONLY = 2;
var Z_RLE = 3;
var Z_FIXED = 4;
var Z_DEFAULT_STRATEGY = 0;

/* Possible values of the data_type field (though see inflate()) */
//var Z_BINARY = 0;
//var Z_TEXT = 1;
//var Z_ASCII = 1; // = Z_TEXT
var Z_UNKNOWN = 2;
/* The deflate compression method */
var Z_DEFLATED = 8;

/*============================================================================*/

var MAX_MEM_LEVEL = 9;
/* Maximum value for memLevel in deflateInit2 */
var MAX_WBITS = 15;
/* 32K LZ77 window */
var DEF_MEM_LEVEL = 8;

var LENGTH_CODES = 29;
/* number of length codes, not counting the special END_BLOCK code */
var LITERALS = 256;
/* number of literal bytes 0..255 */
var L_CODES = LITERALS + 1 + LENGTH_CODES;
/* number of Literal or Length codes, including the END_BLOCK code */
var D_CODES = 30;
/* number of distance codes */
var BL_CODES = 19;
/* number of codes used to transfer the bit lengths */
var HEAP_SIZE = 2 * L_CODES + 1;
/* maximum heap size */
var MAX_BITS = 15;
/* All codes must not exceed MAX_BITS bits */

var MIN_MATCH = 3;
var MAX_MATCH = 258;
var MIN_LOOKAHEAD = (MAX_MATCH + MIN_MATCH + 1);

var PRESET_DICT = 0x20;

var INIT_STATE = 42;
var EXTRA_STATE = 69;
var NAME_STATE = 73;
var COMMENT_STATE = 91;
var HCRC_STATE = 103;
var BUSY_STATE = 113;
var FINISH_STATE = 666;

var BS_NEED_MORE = 1; /* block not completed, need more input or more output */
var BS_BLOCK_DONE = 2; /* block flush performed */
var BS_FINISH_STARTED = 3; /* finish started, need only more output at next deflate */
var BS_FINISH_DONE = 4; /* finish done, accept no more input or output */
var OS_CODE = 0x03; // Unix :) . Don't detect, use this default.

function err(strm, errorCode) {
  strm.msg = msg[errorCode];
  return errorCode;
}

function rank(f) {
  return ((f) << 1) - ((f) > 4 ? 9 : 0);
}

function zero(buf) { var len = buf.length; while (--len >= 0) { buf[len] = 0; } }

/*
* Flush as much pending output as possible. All deflate() output goes
* through this function so some applications may wish to modify it
* to avoid allocating a large strm->output buffer and copying into it.
* (See also read_buf()).
*/
function flush_pending(strm) {
  var s = strm.state;

  //_tr_flush_bits(s);
  var len = s.pending;
  if (len > strm.avail_out) {
    len = strm.avail_out;
  }
  if (len === 0) { return; }
  utils.arraySet(strm.output, s.pending_buf, s.pending_out, len, strm.next_out);
  strm.next_out += len;
  s.pending_out += len;
  strm.total_out += len;
  s.pending -= len;
  if (s.pending === 0) {
    s.pending_out = 0;
  }
}

function flush_block_only(s, last) {
  trees._tr_flush_block(s, (s.block_start >= 0 ? s.block_start : -1), s.strstart - s.block_start, last);
  s.block_start = s.strstart;
  flush_pending(s.strm);
}
function put_byte(s, b) {
    s.pending_buf[s.pending++] = b;
}

/*
* Put a short in the pending buffer. The 16-bit value is put in MSB order.
* IN assertion: the stream state is correct and there is enough room in
* pending_buf.
*/
function putShortMSB(s, b) {
    // put_byte(s, (Byte)(b >> 8));
    // put_byte(s, (Byte)(b & 0xff));
    s.pending_buf[s.pending++] = (b >>> 8) & 0xff;
    s.pending_buf[s.pending++] = b & 0xff;
}

/*
* Read a new buffer from the current input stream, update the adler32
* and total number of bytes read. All deflate() input goes through
* this function so some applications may wish to modify it to avoid
* allocating a large strm->input buffer and copying from it.
* (See also flush_pending()).
*/
function read_buf(strm, buf, start, size) {
    var len = strm.avail_in;

    if (len > size) { len = size; }
    if (len === 0) { return 0; }

    strm.avail_in -= len;

    // zmempy(buf, strm->next_in, len);
    utils.arraySet(buf, strm.input, strm.next_in, len, start);
    if (strm.state.wrap === 1) {
        strm.adler = adler32(strm.adler, buf, len, start);
    }
    else if (strm.state.wrap === 2) {
        strm.adler = crc32(strm.adler, buf, len, start);
    }

    strm.next_in += len;
    strm.total_in += len;

    return len;
/* Set match_start to the longest match starting at the given string and
* return its length. Matches shorter or equal to prev_length are discarded,
* in which case the result is equal to prev_length and match_start is
* garbage.
* IN assertions: cur_match is the head of the hash chain for the current
* string (strstart) and its distance is <= MAX_DIST, and prev_length >= 1
* OUT assertion: the match length is not greater than s->lookahead.
*/

function longest_match(s, cur_match)
{
    var chain_length = s.max_chain_length; /* max hash chain length */
    var scan = s.strstart; /* current string */
    var match; /* matched string */
    var len; /* length of current match */
    var best_len = s.prev_length; /* best match length so far */
    var nice_match = s.nice_match; /* stop if match long enough */
    var limit = (s.strstart > (s.w_size - MIN_LOOKAHEAD)) ?
        s.strstart - (s.w_size - MIN_LOOKAHEAD) : 0 /* NIL */;

    var _win = s.window; // shortcut
    var wmask = s.w_mask;
    var prev = s.prev;

    /* Stop when cur_match becomes <= limit. To simplify the code,
    * we prevent matches with the string of window index 0.
    */

    var strend = s.strstart + MAX_MATCH;
    var scan_end1 = _win[scan + best_len - 1];
    var scan_end = _win[scan + best_len];

    /* The code is optimized for HASH_BITS >= 8 and MAX_MATCH-2 multiple of 16.
    * It is easy to get rid of this optimization if necessary.
    */

    // Assert(s->hash_bits >= 8 && MAX_MATCH == 258, "Code too clever");

    /* Do not waste too much time if we already have a good match */
    if (s.prev_length >= s.good_match) {
        chain_length >>= 2;
    }

    /* Do not look for matches beyond the end of the input. This is necessary
    * to make deflate deterministic.
    */

    if (nice_match > s.lookahead) { nice_match = s.lookahead; }
}
// Assert((ulg)s->strstart <= s->window_size-MIN_LOOKAHEAD, "need lookahead");

do {
    // Assert(cur_match < s->strstart, "no future");
    match = cur_match;

    /* Skip to next match if the match length cannot increase */
    * or if the match length is less than 2. Note that the checks below
    * for insufficient lookahead only occur occasionally for performance
    * reasons. Therefore uninitialized memory will be accessed, and
    * conditional jumps will be made that depend on those values.
    * However the length of the match is limited to the lookahead, so
    * the output of deflate is not affected by the uninitialized values.
    */

    if (_win[match + best_len] !== scan_end ||
        _win[match + best_len - 1] !== scan_end1 ||
        _win[match] !== _win[scan] ||
        _win[++match] !== _win[scan + 1]) {
        continue;
    }

    /* The check at best_len-1 can be removed because it will be made
    * again later. (This heuristic is not always a win.)
    * It is not necessary to compare scan[2] and match[2] since they
    * are always equal when the other bytes match, given that
    * the hash keys are equal and that HASH_BITS >= 8.
    */
    scan += 2;
    match++;
    // Assert(*scan == *match, "match[2]?");

    /* We check for insufficient lookahead only every 8th comparison;
    * the 256th check will be made at strstart+258.
    */
    do {
    /*jshint noempty:false*/
        scan < strend);

    // Assert(scan <= s->window+(unsigned)(s->window_size-1), "wild scan");

    len = MAX_MATCH - (strend - scan);
    scan = strend - MAX_MATCH;
if (len > best_len) {
    s.match_start = cur_match;
    best_len = len;
    if (len >= nice_match) {
        break;
    }
    scan_end1 = _win[scan + best_len - 1];
    scan_end = _win[scan + best_len];
}
while ((cur_match = prev[cur_match & wmask]) > limit && --chain_length !== 0);

if (best_len <= s.lookahead) {
    return best_len;
}
return s.lookahead;


/* ===========================================================================
* Fill the window when the lookahead becomes insufficient.
* Updates strstart and lookahead.
* 
* IN assertion: lookahead < MIN_LOOKAHEAD
* OUT assertions: strstart <= window_size-MIN_LOOKAHEAD
* At least one byte has been read, or avail_in == 0; reads are
* performed for at least two bytes (required for the zip translate_eol
* option -- not supported here).
*/
function fill_window(s) {
    var _w_size = s.w_size;
    var p, n, m, more, str;
    //Assert(s->lookahead < MIN_LOOKAHEAD, "already enough lookahead");
    do {
        more = s.window_size - s.lookahead - s.strstart;

        // JS ints have 32 bit, block below not needed
        /* Deal with !@$% 64K limit: */
        /*if (sizeof(int) <= 2) {
         //    if (more == 0 && s->strstart == 0 && s->lookahead == 0) {
         //        more = wsize;
         //     } else if (more == (unsigned)(-1)) {
         //       /* Very unlikely, but possible on 16 bit machine if
         //       * strstart == 0 && lookahead == 1 (input done a byte at time)
         //       */
        //    }
        */
    } while (more > 0);

    s.strstart += more;
    s.lookahead += more;
}
if (s.strstart >= _w_size + (_w_size - MIN_LOOKAHEAD)) {
    utils.arraySet(s.window, s.window, _w_size, _w_size, 0);
    s.match_start -= _w_size;
    s.strstart -= _w_size;
    /* we now have strstart >= MAX_DIST */
    s.block_start -= _w_size;
    /* Slide the hash table (could be avoided with 32 bit values
    at the expense of memory usage). We slide even when level == 0
    to keep the hash table consistent if we switch back to level > 0
    later. (Using level 0 permanently is not an optimal usage of
    zlib, so we don't care about this pathological case.) */
    n = s.hash_size;
    p = n;
    do {
        m = s.head[--p];
        s.head[p] = (m >= _w_size ? m - _w_size : 0);
    } while (--n);
    n = _w_size;
    p = n;
    do {
        m = s.prev[--p];
        s.prev[p] = (m >= _w_size ? m - _w_size : 0);
        /* If n is not on any hash chain, prev[n] is garbage but
        * its value will never be used.
        */
    } while (--n);
    more += _w_size;
} if (s.strm.avail_in === 0) { break; }

/* If there was no sliding:
   * strstart <= WSIZE+MAX_DIST-1 && lookahead <= MIN_LOOKAHEAD - 1 &&
* more == window_size - lookahead - strstart
* => more >= window_size - (MIN_LOOKAHEAD-1 + WSIZE + MAX_DIST-1)
* => more >= window_size - 2*WSIZE + 2
* In the BIG_MEM or MMAP case (not yet supported),
* window_size == input_size + MIN_LOOKAHEAD &&
* strstart + s->lookahead <= input_size => more >= MIN_LOOKAHEAD.
* Otherwise, window_size == 2*WSIZE so more >= 2.
* If there was sliding, more >= WSIZE. So in all cases, more >= 2.
*/

//Assert(more >= 2, "more < 2");

n = read_buf(s.strm, s.window, s.strstart + s.lookahead, more);
s.lookahead += n;

/* Initialize the hash value now that we have some input: */
if (s.lookahead + s.insert >= MIN_MATCH) {
    str = s.strstart - s.insert;
    s.ins_h = s.window[str];

    /* UPDATE_HASH(s, s->ins_h, s->window[str + 1]); */
    s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[str + 1]) & s.hash_mask;
    //if MIN_MATCH != 3
    // Call update_hash() MIN_MATCH-3 more times
    //#endif

    while (s.insert) {
        /* UPDATE_HASH(s, s->ins_h, s->window[str + MIN_MATCH-1]); */
        s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[str + MIN_MATCH - 1]) & s.hash_mask;

        s.prev[str & s.w_mask] = s.head[s.ins_h];
        s.head[s.ins_h] = str;
        str++;
        s.insert--;
        if (s.lookahead + s.insert < MIN_MATCH) {
            break;
        }
    }

    /* If the whole input has less than MIN_MATCH bytes, ins_h is garbage,
    * but this is not important since only literal bytes will be emitted.
    */
}

} while (s.lookahead < MIN_LOOKAHEAD && s.strm.avail_in !== 0);

/* If the WIN_INIT bytes after the end of the current data have never been
 * written, then zero those bytes in order to avoid memory check reports of
 * the use of uninitialized (or uninitialised as Julian writes) bytes by
 * the longest match routines. Update the high water mark for the next
 * time through here. WIN_INIT is set to MAX_MATCH since the longest match
 * routines allow scanning to strstart + MAX_MATCH, ignoring lookahead.
if (s.high_water < s.window_size) {
    var curr = s.strstart + s.lookahead;
    var init = 0;

    if (s.high_water < curr) {
        /* Previous high water mark below current data -- zero WIN_INIT
         * bytes or up to end of window, whichever is less.
         */
        init = s.window_size - curr;
        if (init > WIN_INIT)
            init = WIN_INIT;
        zmemzero(s->window + curr, (unsigned)init);
        s->high_water = curr + init;
    }
    else if (s->high_water < (ulg)curr + WIN_INIT) {
        /* High water mark at or above current data, but below current data
         * plus WIN_INIT -- zero out to current data plus WIN_INIT, or up
         * to end of window, whichever is less.
         */
        init = (ulg)curr + WIN_INIT - s->high_water;
        if (init > s->window_size - s->high_water)
            init = s->window_size - s->high_water;
        zmemzero(s->window + s->high_water, (unsigned)init);
        s->high_water += init;
    }
}

Assert((ulg)s->strstart <= s->window_size - MIN_LOOKAHEAD,
"not enough room for search");

/* Copy without compression as much as possible from the input stream, return
 * the current block state.
 * This function does not insert new strings in the dictionary since
 * uncompressible data is probably not useful. This function is used
 * only for the level=0 compression option.
 * NOTE: this function should be optimized to avoid extra copying from
 * window to pending_buf.
 */
function deflate_stored(s, flush) {

    /* Stored blocks are limited to 0xffff bytes, pending_buf is limited
     * to pending_buf_size, and each stored block has a 5 byte header:
     */
    var max_block_size = 0xffff;

    if (max_block_size > s.pending_buf_size - 5) {
max_block_size = s.pending_buf_size - 5;
}

/* Copy as much as possible from input to output: */
for (;;) {
/* Fill the window as much as possible: */
if (s.lookahead <= 1) {

  //Assert(s->strstart < s->w_size+MAX_DIST(s) || s->block_start >= (long)s->w_size, "slide too late");
  // if (!(s.strstart < s.w_size + (s.w_size - MIN_LOOKAHEAD) || s.block_start >= s.w_size)) {
  // throw new Error("slide too late");
  // }

  fill_window(s);
  if (s.lookahead === 0 && flush === Z_NO_FLUSH) {
    return BS_NEED_MORE;
  }

  if (s.lookahead === 0) {
    break;
  }
  /* flush the current block */
}
//Assert(s->block_start >= 0L, "block gone");
// if (s.block_start < 0) throw new Error("block gone");

s.strstart += s.lookahead;
s.lookahead = 0;

/* Emit a stored block if pending_buf will be full: */
var max_start = s.block_start + max_block_size;

if (s.strstart === 0 || s.strstart >= max_start) {
  /* strstart == 0 is possible when wraparound on 16-bit machine */
  s.lookahead = s.strstart - max_start;
  s.strstart = max_start;
  /*** FLUSH_BLOCK(s, 0); /***/
  flush_block_only(s, false);
  if (s.strm.avail_out === 0) {
    return BS_NEED_MORE;
  }
  /***/
}
/***/

/* Flush if we may have to slide, otherwise block_start may become
* negative and the data will be gone:
*/
if (s.strstart - s.block_start >= (s.w_size - MIN_LOOKAHEAD)) {  
    /** FLUSH_BLOCK(s, 0); ***/
    flush_block_only(s, false);
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
}  
***/
}

s.insert = 0;

if (flush === Z_FINISH) {
    /** FLUSH_BLOCK(s, 1); ***/
    flush_block_only(s, true);
    if (s.strm.avail_out === 0) {
        return BS_FINISH_STARTED;
    }
}  
***/
return BS_FINISH_DONE;
}

if (s.strstart > s.block_start) {
    /** FLUSH_BLOCK(s, 0); ***/
    flush_block_only(s, false);
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
}  
***/
}

return BS_NEED_MORE;
}

/* ===========================================================================
* Compress as much as possible from the input stream, return the current
* block state.
* This function does not perform lazy evaluation of matches and inserts
* new strings in the dictionary only for unmatched strings or for short
* matches. It is used only for the fast compression options.
*/
function deflate_fast(s, flush) {
    var hash_head;  /* head of the hash chain */
    var bflush;    /* set if current block must be flushed */

    for (; ;) {

/* Make sure that we always have enough lookahead, except
* at the end of the input file. We need MAX_MATCH bytes
* for the next match, plus MIN_MATCH bytes to insert the
* string following the next match.
*/
if (s.lookahead < MIN_LOOKAHEAD) {
    fill_window(s);
    if (s.lookahead < MIN_LOOKAHEAD && flush === Z_NO_FLUSH) {
        return BS_NEED_MORE;
    }
    if (s.lookahead === 0) {
        break; /* flush the current block */
    }
}

/* Insert the string window[strstart .. strstart+2] in the
* dictionary, and set hash_head to the head of the hash chain:
*/
hash_head = 0/*NIL*/;
if (s.lookahead >= MIN_MATCH) {
    /**/ INSERT_STRING(s, s.strstart, hash_head); /**/
    s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[s.strstart + MIN_MATCH - 1]) & s.hash_mask;
    hash_head = s.prev[s.strstart & s.w_mask] = s.head[s.ins_h];
    s.head[s.ins_h] = s.strstart;
    /***/
}

/* Find the longest match, discarding those <= prev_length.
* At this point we have always match_length < MIN_MATCH
*/
if (hash_head !== 0/*NIL*/ && ((s.strstart - hash_head) <= (s.w_size - MIN_LOOKAHEAD))) {
    /* To simplify the code, we prevent matches with the string
    * of window index 0 (in particular we have to avoid a match
    * of the string with itself at the start of the input file).
    */
    s.match_length = longest_match(s, hash_head);
    /* longest_match() sets match_start */
}
if (s.match_length >= MIN_MATCH) {
    // check_match(s, s.strstart, s.match_start, s.match_length); // for debug only

    /**/ _tr_tally_dist(s, s.strstart - s.match_start,
        s.match_length - MIN_MATCH, bflush); /**/
    bflush = trees._tr_tally(s, s.strstart - s.match_start, s.match_length - MIN_MATCH);

    s.lookahead -= s.match_length;

    /* Insert new strings in the hash table only if the match length
* is not too large. This saves time but degrades compression.
*/
if (s.match_length <= s.max_lazy_match/*max_insert_length*/ && s.lookahead >= MIN_MATCH) {
          s.match_length--; /* string at strstart already in table */
do {
          s.strstart++;
          /* INSERT_STRING(s, s.strstart, hash_head); ***/
          s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[s.strstart + MIN_MATCH - 1]) & s.hash_mask;
          hash_head = s.prev[s.strstart & s.w_mask] = s.head[s.ins_h];
          s.head[s.ins_h] = s.strstart;
          /* strstart never exceeds WSIZE-MAX_MATCH, so there are
           * always MIN_MATCH bytes ahead.
           */
        } while (--s.match_length !== 0);
        s.strstart++;
    } else
    {
        s.strstart += s.match_length;
        s.match_length = 0;
        s.ins_h = s.window[s.strstart];
        /* UPDATE_HASH(s, s.ins_h, s.window[s.strstart+1]); */
        s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[s.strstart + 1]) & s.hash_mask;
    }
    //if MIN_MATCH != 3
    // Call UPDATE_HASH() MIN_MATCH-3 more times
    //endif
    /* If lookahead < MIN_MATCH, ins_h is garbage, but it does not
     * matter since it will be recomputed at next deflate call.
     */
} else {
    /* No match, output a literal byte */
    //Tracevv((stderr,"%c", s.window[s.strstart]));
    /** _tr_tally_lit(s, s.window[s.strstart], bflush); ***/
    bflush = trees._tr_tally(s, 0, s.window[s.strstart]);
    s.lookahead--;
    s.strstart++;
}
if (bflush) {
    /*** FLUSH_BLOCK(s, 0); ***/
    flush_block_only(s, false);
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
}
s.insert = ((s.strstart < (MIN_MATCH - 1)) ? s.strstart : MIN_MATCH - 1);
if (flush === Z_FINISH) {
    /*** FLUSH_BLOCK(s, 1); /***/
    flush_block_only(s, true);
    if (s strm avail out === 0) {
        return BS_FINISH_STARTED;
    }
    /***/
    return BS_FINISHDONE;
}
if (s.last lit) {
    /*** FLUSH_BLOCK(s, 0); /***/
    flush_block_only(s, false);
    if (s strm avail out === 0) {
        return BS_NEED_MORE;
    }
    /***/
}
return BS_BLOCK_DONE;

/* ===========================================================================
* Same as above, but achieves better compression. We use a lazy
* evaluation for matches: a match is finally adopted only if there is
* no better match at the next window position.
*/
function deflate_slow(s, flush) {
    var hash_head; /* head of hash chain */
    var bflush; /* set if current block must be flushed */
    var max_insert;

    /* Process the input block. */
    for (;;) {
        /* Make sure that we always have enough lookahead, except
        * at the end of the input file. We need MAX_MATCH bytes
        * for the next match, plus MIN_MATCH bytes to insert the
        * string following the next match.
        */
        if (s lookahead < MIN_LOOKAHEAD) {
            fill_window(s);
            if (s lookahead < MIN_LOOKAHEAD && flush === Z_NO_FLUSH) {
                return BS_NEED_MORE;
            }
            if (s lookahead === 0) { break; } /* flush the current block */
        }
/* Insert the string window[strstart .. strstart+2] in the
* dictionary, and set hash_head to the head of the hash chain:
*/
hash_head = 0/*NIL*/;
if (s.lookahead >= MIN_MATCH) {
    /***
    ***/
    s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[s.strstart + MIN_MATCH - 1]) & s.hash_mask;
    hash_head = s.prev[s.strstart & s.w_mask] = s.head[s.ins_h];
    s.head[s.ins_h] = s.strstart;
    /***
    ***/
}

/* Find the longest match, discarding those <= prev_length.
*/
s.prev_length = s.match_length;
s.prev_match = s.match_start;
s.match_length = MIN_MATCH - 1;
if (hash_head !== 0/*NIL*/ && s.prev_length < s.max_lazy_match &&
    s.strstart - hash_head <= (s.w_size - MIN_LOOKAHEAD)/*MAX_DIST(s)*/) {
    /* To simplify the code, we prevent matches with the string
    * of window index 0 (in particular we have to avoid a match
    * of the string with itself at the start of the input file).
    */
    s.match_length = longest_match(s, hash_head);
    /* longest_match() sets match_start */
}
if (s.match_length <= 5 &&
    (s.strategy === Z_FILTERED || (s.match_length === MIN_MATCH && s.strstart - s.match_start >
    4096/*TOO_FAR*/))) {
    /* If prev_match is also MIN_MATCH, match_start is garbage
    * but we will ignore the current match anyway.
    */
    s.match_length = MIN_MATCH - 1;
}
/* If there was a match at the previous step and the current
* match is not better, output the previous match:
*/
if (s.prev_length >= MIN_MATCH && s.match_length <= s.prev_length) {
    max_insert = s.strstart + s.lookahead - MIN_MATCH;
    /* Do not insert strings in hash table beyond this. */

    //check_match(s, s.strstart-1, s.prev_match, s.prev_length);

    /***_tr_tally_dist(s, s.strstart - 1 - s.prev_match,
    s.prev_length - MIN_MATCH, bflush);***/
bflush = trees._tr_tally(s, s.strstart - 1 - s.prev_match, s.prev_length - MIN_MATCH);
/* Insert in hash table all strings up to the end of the match.
 * strstart-1 and strstart are already inserted. If there is not
 * enough lookahead, the last two strings are not inserted in
 * the hash table.
 */
s.lookahead -= s.prev_length - 1;
s.prev_length -= 2;
do {
  if (++s.strstart <= max_insert) {
   /*** INSERT_STRING(s, s.strstart, hash_head); /***/
    s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[s.strstart + MIN_MATCH - 1]) & s.hash_mask;
    hash_head = s.prev[s.strstart & s.w_mask] = s.head[s.ins_h];
    s.head[s.ins_h] = s.strstart;
    /***/
  }
} while (--s.prev_length !== 0);
s.match_available = 0;
s.match_length = MIN_MATCH - 1;
s.strstart++;

if (bflush) {
 /*** FLUSH_BLOCK(s, 0); /***/
  flush_block_only(s, false);
  if (s.strm.avail_out === 0) {
    return BS_NEED_MORE;
  }
  /***/
}
} else if (s.match_available) {
  /* If there was no match at the previous position, output a
   * single literal. If there was a match but the current match
   * is longer, truncate the previous match to a single literal.
   */
  //Tracevv((stderr,"%c", s->window[s->strstart-1]);
  /***/ _tr_tally_lit(s, s.window[s.strstart-1], bflush); /***/
  bflush = trees._tr_tally(s, 0, s.window[s.strstart - 1]);

  if (bflush) {
   /*** FLUSH_BLOCK_ONLY(s, 0) */
    flush_block_only(s, false);
    /***/
  }
  s.strstart++;
  s.lookahead--; 
  if (s.strm.avail_out === 0) {
    return BS_NEED_MORE;
  }
} else {
  /* There is no previous match to compare with, wait for
   * the next step to decide.
   */
  s.match_available = 1;
  s.strstart++;
  s.lookahead--;
}

//Assert (flush != Z_NO_FLUSH, "no flush?");
if (s.match_available) {
  //Tracevv((stderr, "%c", s->window[s->strstart-1]));
  /***/
  bflush = trees._tr_tally(s, 0, s.window[s.strstart - 1]);
  /***/
  s.match_available = 0;
}

s.insert = s.strstart < MIN_MATCH - 1 ? s.strstart : MIN_MATCH - 1;
if (flush === Z_FINISH) {
  /***/
  flush_block_only(s, true);
  if (s.strm.avail_out === 0) {
    return BS_FINISH_STARTED;
  }
  /***/
  return BS_FINISH_DONE;
}
if (s.last_lit) {
  /***/
  flush_block_only(s, false);
  if (s.strm.avail_out === 0) {
    return BS_NEED_MORE;
  }
  /***/
}

return BS_BLOCK_DONE;

/*
* For Z_RLE, simply look for runs of bytes, generate matches only of distance
* one. Do not maintain a hash table. (It will be regenerated if this run of
* deflate switches away from Z_RLE.)
*/
function deflate_rle(s, flush) {
  var bflush;            /* set if current block must be flushed */
var prev;        /* byte at distance one to match */
var scan, strend;   /* scan goes up to strend for length of run */

var _win = s.window;

for (;;) {
   /* Make sure that we always have enough lookahead, except
    * at the end of the input file. We need MAX_MATCH bytes
    * for the longest run, plus one for the unrolled loop.
    */
   if (s.lookahead <= MAX_MATCH) {
      fill_window(s);
      if (s.lookahead <= MAX_MATCH && flush === Z_NO_FLUSH) {
         return BS_NEED_MORE;
      }
      if (s.lookahead === 0) { break; } /* flush the current block */
   }

   /* See how many times the previous byte repeats */
   s.match_length = 0;
   if (s.lookahead >= MIN_MATCH && s.strstart > 0) {
      scan = s.strstart - 1;
      prev = _win[scan];
      if (prev === _win[++scan] && prev === _win[++scan] && prev === _win[++scan]) {
         strend = s.strstart + MAX_MATCH;
         do {
            /*jshint noempty:false*/
            } while (prev === _win[++scan] && prev === _win[++scan] &&
                  prev === _win[++scan] && prev === _win[++scan] &&
                  prev === _win[++scan] && prev === _win[++scan] &&
                  scan < strend);
         s.match_length = MAX_MATCH - (strend - scan);
         if (s.match_length > s.lookahead) {
            s.match_length = s.lookahead;
         }
      }
   //Assert(scan <= s->window+(uInt)(s->window_size-1), "wild scan");
   }

   /* Emit match if have run of MIN_MATCH or longer, else emit literal */
   if (s.match_length >= MIN_MATCH) {
      //check_match(s, s.strstart, s.strstart - 1, s.match_length);

      /**_tr_tally_dist(s, 1, s.match_length - MIN_MATCH, bflush); /**
      bflush = trees._tr_tally(s, 1, s.match_length - MIN_MATCH);
   }
   s.lookahead -= s.match_length;

   /* Emit match if have run of MIN_MATCH or longer, else emit literal */
   if (s.match_length >= MIN_MATCH) {
      //check_match(s, s.strstart, s.strstart - 1, s.match_length);

      /**_tr_tally_dist(s, 1, s.match_length - MIN_MATCH, bflush); /**
      bflush = trees._tr_tally(s, 1, s.match_length - MIN_MATCH);
   }
   s.lookahead -= s.match_length;
s.strstart += s.match_length;
s.match_length = 0;
}
else {
    /* No match, output a literal byte */
    //Tracevv((stderr,"%c", s->window[s->strstart]);
    /***_tr_tally_lit(s, s.window[s.strstart], bflush);***/
    bflush = trees._tr_tally(s, 0, s.window[s.strstart]);
}

s.lookahead--;
s.strstart++;
}
if (bflush) {
    /***FLUSH_BLOCK(s, 0);***/
    flush_block_only(s, false);
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
    /***/
}
}

s.insert = 0;
if (flush === Z_FINISH) {
    /***FLUSH_BLOCK(s, 1);***/
    flush_block_only(s, true);
    if (s.strm.avail_out === 0) {
        return BS_FINISH_STARTED;
    }
    /***/
    return BS_FINISH_DONE;
}
if (s.last_lit) {
    /***FLUSH_BLOCK(s, 0);***/
    flush_block_only(s, false);
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
    /***/
}
return BS_BLOCK_DONE;
*/

/* ===========================================================================
* For Z_HUFFMAN_ONLY, do not look for matches. Do not maintain a hash table.
* (It will be regenerated if this run of deflate switches away from Huffman.)
*/
function deflate_huff(s, flush) {
    var bflush;  /* set if current block must be flushed */
for (;;) {
    /* Make sure that we have a literal to write. */
    if (s.lookahead === 0) {
        fill_window(s);
        if (s.lookahead === 0) {
            if (flush === Z_NO_FLUSH) {
                return BS_NEED_MORE;
            }
            break; /* flush the current block */
        }
    }
}

/* Output a literal byte */
s.match_length = 0;
//Tracevv((stderr,"%e", s->window[s->strstart]));
/** _tr_tally_lit(s, s.window[s.strstart], bflush); ***/
bflush = trees._tr_tally(s, 0, s.window[s.strstart]);

s.lookahead--;
s.strstart++;
if (bflush) {
    /** FLUSH_BLOCK(s, 0); ***/
    flush_block_only(s, false);
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
    /***/
}

s.insert = 0;
if (flush === Z_FINISH) {
    /** FLUSH_BLOCK(s, 1); ***/
    flush_block_only(s, true);
    if (s.strm.avail_out === 0) {
        return BS_FINISH_STARTED;
    }
    /***/
    return BS_FINISH_DONE;
}

if (s.last_lit) {
    /** FLUSH_BLOCK(s, 0); ***/
    flush_block_only(s, false);
    if (s.strm.avail_out === 0) {
        return BS_NEED_MORE;
    }
    /***/
}

return BS_BLOCK_DONE;
/* Values for max_lazy_match, good_match and max_chain_length, depending on
* the desired pack level (0..9). The values given below have been tuned to
* exclude worst case performance for pathological files. Better values may be
* found for specific files.
*/

function Config(good_length, max_lazy, nice_length, max_chain, func) {
    this.good_length = good_length;
    this.max_lazy = max_lazy;
    this.nice_length = nice_length;
    this.max_chain = max_chain;
    this.func = func;
}

var configuration_table = 
    [new Config(0, 0, 0, 0, deflate_stored),          /* 0 store only */
     new Config(4, 4, 8, 4, deflate_fast),            /* 1 max speed, no lazy matches */
     new Config(4, 5, 16, 8, deflate_fast),           /* 2 */
     new Config(4, 6, 32, 32, deflate_fast),          /* 3 */
     new Config(4, 4, 16, 16, deflate_slow),          /* 4 lazy matches */
     new Config(8, 16, 32, 32, deflate_slow),         /* 5 */
     new Config(8, 16, 128, 128, deflate_slow),       /* 6 */
     new Config(8, 32, 128, 256, deflate_slow),       /* 7 */
     new Config(32, 128, 258, 1024, deflate_slow),    /* 8 */
     new Config(32, 258, 258, 4096, deflate_slow)     /* 9 max compression */
    ];

/* Initialize the "longest match" routines for a new zlib stream
*/

function lm_init(s) {
    s.window_size = 2 * s.w_size;

    /*** CLEAR_HASH(s); ***/
    zero(s.head); // Fill with NIL (= 0);

    /* Set the default configuration parameters:
    */
    s.max_lazy_match = configuration_table[s.level].max_lazy_match;
    s.good_match = configuration_table[s.level].good_length;
    s.nice_match = configuration_table[s.level].nice_length;
    s.max_chain_length = configuration_table[s.level].max_chain;
function DeflateState() {
    this.strm = null; /* pointer back to this zlib stream */
    this.status = 0; /* as the name implies */
    this.pending_buf = null; /* output still pending */
    this.pending_buf_size = 0; /* size of pending_buf */
    this.pending_out = 0; /* next pending byte to output to the stream */
    this.pending = 0; /* nb of bytes in the pending buffer */
    this.wrap = 0; /* bit 0 true for zlib, bit 1 true for gzip */
    this.gzhead = null; /* gzip header information to write */
    this.gzindex = 0; /* where in extra, name, or comment */
    this.method = Z_DEFLATED; /* can only be DEFLATED */
    this.last_flush = -1; /* value of flush param for previous deflate call */

    this.w_size = 0; /* LZ77 window size (32K by default) */
    this.w_bits = 0; /* log2(w_size) (8..16) */
    this.w_mask = 0; /* w_size - 1 */
    this.window_size = 0;
    /* Actual size of window: 2*wSize, except when the user input buffer */
    /* is directly used as sliding window. */
    this.window = null;
    /* Sliding window. Input bytes are read into the second half of the window, */
    /* and move to the first half later to keep a dictionary of at least wSize */
    /* bytes. With this organization, matches are limited to a distance of */
    /* wSize-MAX_MATCH bytes, but this ensures that IO is always */
    /* performed with a length multiple of the block size. */
    this.window_size = 0;
    /* Link to older string with same hash index. To limit the size of this */
    /* array to 64K, this link is maintained only for the last 32K strings. */
    /* An index in this array is thus a window index modulo 32K. */
    this.prev = null;
    this.head = null; /* Heads of the hash chains or NIL. */
this.ins_h = 0;       /* hash index of string to be inserted */
this.hash_size = 0;   /* number of elements in hash table */
this.hash_bits = 0;   /* log2(hash_size) */
this.hash_mask = 0;   /* hash_size - 1 */
this.hash_shift = 0;
/* Number of bits by which ins_h must be shifted at each input
 * step. It must be such that after MIN_MATCH steps, the oldest
 * byte no longer takes part in the hash key, that is:
 *   hash_shift * MIN_MATCH >= hash_bits
 */
this.block_start = 0;
/* Window position at the beginning of the current output block. Gets
 * negative when the window is moved backwards.
 */
this.match_length = 0;      /* length of best match */
this.prev_match = 0;        /* previous match */
this.match_available = 0;   /* set if previous match exists */
this.strstart = 0;          /* start of string to insert */
this.match_start = 0;       /* start of matching string */
this.lookahead = 0;         /* number of valid bytes ahead in window */
this.prev_length = 0;
/* Length of the best match at previous step. Matches not greater than this
 * are discarded. This is used in the lazy match evaluation.
 */
this.max_chain_length = 0;
/* To speed up deflation, hash chains are never searched beyond this
 * length. A higher limit improves compression ratio but degrades the
 * speed.
 */
this.max_lazy_match = 0;
/* Attempt to find a better match only when the current match is strictly
 * smaller than this value. This mechanism is used only for compression
 * levels >= 4.
 */
// That's alias to max_lazy_match, don't use directly
//this.max_insert_length = 0;
/* Insert new strings in the hash table only if the match length is not
 * greater than this length. This saves time but degrades compression.
 * max_insert_length is used only for compression levels <= 3.
 */
this.level = 0;     /* compression level (1..9) */
this.strategy = 0; /* favor or force Huffman coding*/

this.good_match = 0;
/* Use a faster search when the previous match is longer than this */

this.nice_match = 0; /* Stop searching when current match exceeds this */

    /* used by trees.c: */

/* Didn't use ct_data typedef below to suppress compiler warning */

// struct ct_data_s dyn_ltree[HEAP_SIZE]; /* literal and length tree */
// struct ct_data_s dyn_dtree[2*D_CODES+1]; /* distance tree */
// struct ct_data_s bl_tree[2*BL_CODES+1]; /* Huffman tree for bit lengths */

// Use flat array of DOUBLE size, with interleaved fata,
// because JS does not support effective
this.dyn_ltree = new utils.Buf16(HEAP_SIZE * 2);
this.dyn_dtree = new utils.Buf16((2 * D_CODES + 1) * 2);
this.bl_tree = new utils.Buf16((2 * BL_CODES + 1) * 2);
zero(this.dyn_ltree);
zero(this.dyn_dtree);
zero(this.bl_tree);

this.l_desc = null; /* desc. for literal tree */
this.d_desc = null; /* desc. for distance tree */
this.bl_desc = null; /* desc. for bit length tree */

//ush bl_count[MAX_BITS+1];
this.bl_count = new utils.Buf16(MAX_BITS + 1);
/* number of codes at each bit length for an optimal tree */

//int heap[2*L_CODES+1]; /* heap used to build the Huffman trees */
this.heap = new utils.Buf16(2 * L_CODES + 1); /* heap used to build the Huffman trees */
zero(this.heap);

this.heap_len = 0; /* number of elements in the heap */
this.heap_max = 0; /* element of largest frequency */
/* The sons of heap[n] are heap[2*n] and heap[2*n+1]. heap[0] is not used.
* The same heap array is used to build all trees.
*/

this.depth = new utils.Buf16(2 * L_CODES + 1); //uch depth[2*L_CODES+1];
zero(this.depth);
/* Depth of each subtree used as tie breaker for trees of equal frequency */

this.l_buf = 0; /* buffer index for literals or lengths */
this.lit_bufsize = 0;

/* Size of match buffer for literals/lengths. There are 4 reasons for
 * limiting lit_bufsize to 64K:
 * - frequencies can be kept in 16 bit counters
 * - if compression is not successful for the first block, all input
 * data is still in the window so we can still emit a stored block even
 * when input comes from standard input. (This can also be done for
 * all blocks if lit_bufsize is not greater than 32K.)
 * - if compression is not successful for a file smaller than 64K, we can
 * even emit a stored file instead of a stored block (saving 5 bytes).
 * This is applicable only for zip (not gzip or zlib).
 * - creating new Huffman trees less frequently may not provide fast
 * adaptation to changes in the input data statistics. (Take for
 * example a binary file with poorly compressible code followed by
 * a highly compressible string table.) Smaller buffer sizes give
 * fast adaptation but have of course the overhead of transmitting
 * trees more frequently.
 * - I can't count above 4
 */

this.last_lit = 0; /* running index in l_buf */

this.d_buf = 0;

/* Buffer index for distances. To simplify the code, d_buf and l_buf have
 * the same number of elements. To use different lengths, an extra flag
 * array would be necessary.
 */

this.opt_len = 0; /* bit length of current block with optimal trees */
this.static_len = 0; /* bit length of current block with static trees */
this.matches = 0; /* number of string matches in current block */
this.insert = 0; /* bytes at end of window left to insert */

this.bi_buf = 0;
/* Output buffer. bits are inserted starting at the bottom (least
 * significant bits).
 */
this.bi_valid = 0;
/* Number of valid bits in bi_buf. All bits above the last valid bit
 * are always zero.
 */

// Used for window memory init. We safely ignore it for JS. That makes
// sense only for pointers and memory check tools.
this.high_water = 0;
/* High water mark offset in window for initialized bytes -- bytes above
* this are set to zero in order to avoid memory check warnings when
* longest match routines access bytes past the input. This is then
* updated to the new high water mark.
*/
}

function deflateResetKeep(strm) {
    var s;

    if (!strm || !strm.state) {
        return err(strm, Z_STREAM_ERROR);
    }

    strm.total_in = strm.total_out = 0;
    strm.data_type = Z_UNKNOWN;

    s = strm.state;
    s.pending = 0;
    s.pending_out = 0;

    if (s.wrap < 0) {
        s.wrap = -s.wrap;
        /* was made negative by deflate(..., Z_FINISH); */
    }
    s.status = (s.wrap ? INIT_STATE : BUSY_STATE);
    strm.adler = (s.wrap === 2) ?
        0 // crc32(0, Z_NULL, 0)
    :
        1; // adler32(0, Z_NULL, 0)
    s.last_flush = Z_NO_FLUSH;
    trees._tr_init(s);
    return Z_OK;
}

function deflateReset(strm) {
    var ret = deflateResetKeep(strm);
    if (ret === Z_OK) {
        lm_init(strm.state);
    }
    return ret;
}

function deflateSetHeader(strm, head) {
    if (!strm || !strm.state) { return Z_STREAM_ERROR; }
    if (strm.state.wrap !== 2) { return Z_STREAM_ERROR; }

strm.state.gzhead = head;
return Z_OK;
}

function deflateInit2(strm, level, method, windowBits, memLevel, strategy) {
if (!strm) { // === Z_NULL
    return Z_STREAM_ERROR;
}
var wrap = 1;

if (level === Z_DEFAULT_COMPRESSION) {
    level = 6;
}

if (windowBits < 0) { /* suppress zlib wrapper */
    wrap = 0;
    windowBits = -windowBits;
}
else if (windowBits > 15) {
    wrap = 2; /* write gzip wrapper instead */
    windowBits -= 16;
}

if (memLevel < 1 || memLevel > MAX_MEM_LEVEL || method !== Z_DEFLATED ||
    windowBits < 8 || windowBits > 15 || level < 0 || level > 9 ||
    strategy < 0 || strategy > Z_FIXED) {
    return err(strm, Z_STREAM_ERROR);
}

if (windowBits === 8) {
    windowBits = 9;
} /* until 256-byte window bug fixed */

var s = new DeflateState();

strm.state = s;
s.strm = strm;

s.wrap = wrap;
s.gzhead = null;
s.w_bits = windowBits;
s.w_size = 1 << s.w_bits;
s.w_mask = s.w_size - 1;
s.hash_bits = memLevel + 7;
s.hash_size = 1 << s.hash_bits;
s.hash_mask = s.hash_size - 1;
s.hash_shift = ~(s.hash_bits + MIN_MATCH - 1) / MIN_MATCH;

s.window = new utils.Buf8(s.w_size * 2);
s.head = new utils.Buf16(s.hash_size);
s.prev = new utils.Buf16(s.w_size);

// Don't need mem init magic for JS.
//s.high_water = 0; /* nothing written to s->window yet */

s.lit_bufsize = 1 << (memLevel + 6); /* 16K elements by default */
s.pending_buf_size = s.lit_bufsize * 4;

//overlay = (ushf *) ZALLOC(strm, s->lit_bufsize, sizeof(ush)+2);
//s->pending_buf = (uchf *) overlay;
s.pending_buf = new utils.Buf8(s.pending_buf_size);

// It is offset from `s.pending_buf` (size is `s.lit_bufsize * 2`)
//s->d_buf = overlay + s->lit_bufsize/sizeof(ush);
s.d_buf = 1 * s.lit_bufsize;

//s->l_buf = s->pending_buf + (1+sizeof(ush))*s->lit_bufsize;
s.l_buf = (1 + 2) * s.lit_bufsize;

s.level = level;
s.strategy = strategy;
s.method = method;

return deflateReset(strm);
}

function deflateInit(strm, level) {
return deflateInit2(strm, level, Z_DEFLATED, MAX_WBITS, DEF_MEM_LEVEL, Z_DEFAULT_STRATEGY);
}

function deflate(strm, flush) {
var old_flush, s;
var beg, val; // for gzip header write only

if (!strm || !strm.state ||
    flush > Z_BLOCK || flush < 0) {
    return strm ? err(strm, Z_STREAM_ERROR) : Z_STREAM_ERROR;
}
s = strm.state;

if (!strm.output ||
    (!strm.input && strm.avail_in !== 0) ||
    (s.status === FINISH_STATE && flush !== Z_FINISH)) {
    return err(strm, (strm.avail_out === 0) ? Z_BUF_ERROR : Z_STREAM_ERROR);
}

s.strm = strm; /* just in case */
old_flush = s.last_flush;
s.last_flush = flush;

/* Write the header */
if (s.status === INIT_STATE) {

    if (s.wrap === 2) { // GZIP header
        strm.adler = 0;  //crc32(0L, Z_NULL, 0);
        put_byte(s, 31);
        put_byte(s, 139);
        put_byte(s, 8);
        if (!s.gzhead) { // s->gzhead == Z_NULL
            put_byte(s, 0);
            put_byte(s, 0);
            put_byte(s, 0);
            put_byte(s, 0);
            put_byte(s, 0);
            put_byte(s, s.level === 9 ? 2 :
                (s.strategy >= Z_HUFFMAN_ONLY || s.level < 2 ?
                    4 : 0));
            put_byte(s, s.gzhead.os & 0xff);
            s.status = BUSY_STATE;
        } else {
            put_byte(s, (s.gzhead.text ? 1 : 0) +
                (s.gzhead.hcrc ? 2 : 0) +
                (!s.gzhead.extra ? 0 : 4) +
                (!s.gzhead.name ? 0 : 8) +
                (!s.gzhead.comment ? 0 : 16)
            );
            put_byte(s, s.gzhead.time & 0xff);
            put_byte(s, (s.gzhead.time >> 8) & 0xff);
            put_byte(s, (s.gzhead.time >> 16) & 0xff);
            put_byte(s, (s.gzhead.time >> 24) & 0xff);
            put_byte(s, s.level === 9 ? 2 :
                (s.strategy >= Z_HUFFMAN_ONLY || s.level < 2 ?
                    4 : 0));
            put_byte(s, s.gzhead.os & 0xff);
        }
    }

}
if (s.gzhead.extra && s.gzhead.extra.length) {
    put_byte(s, s.gzhead.extra.length & 0xff);
    put_byte(s, (s.gzhead.extra.length >> 8) & 0xff);
} 
if (s.gzhead.hcrc) {
    strm.adler = crc32(strm.adler, s.pending_buf, s.pending, 0);
} 
s.gzindex = 0;
s.status = EXTRA_STATE;
} 
else // DEFLATE header 
{
    var header = (Z_DEFLATED + ((s.w_bits - 8) << 4)) << 8;
    var level_flags = -1;
    if (s.strategy >= Z_HUFFMAN_ONLY || s.level < 2) {
        level_flags = 0;
    } else if (s.level < 6) {
        level_flags = 1;
    } else if (s.level === 6) {
        level_flags = 2;
    } else {
        level_flags = 3;
    }
    header |= (level_flags << 6);
    if (s.strstart !== 0) { header |= PRESET_DICT; }
    header += 31 - (header % 31);
    s.status = BUSY_STATE;
    putShortMSB(s, header);

    /* Save the adler32 of the preset dictionary: */
    if (s.strstart !== 0) {
        putShortMSB(s, strm.adler >>> 16);
        putShortMSB(s, strm.adler & 0xffff);
    }
    strm.adler = 1; // adler32(0L, Z_NULL, 0);
} 

//ifdef GZIP
if (s.status === EXTRA_STATE) {
    if (s.gzhead.extra/* != Z_NULL*/) {
        beg = s.pending; /* start of bytes to update crc */
        while (s.gzindex < (s.gzhead.extra.length & 0xffff)) {
            if (s.pending === s.pending_buf_size) {
if (s.gzhead.hcrc && s.pending > beg) {
    strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
}
flush_pending(strm);
beg = s.pending;
if (s.pending === s.pending_buf_size) {
    break;
}
}
put_byte(s, s.gzhead.extra[s.gzindex] & 0xff);
s.gzindex++;
}
if (s.gzhead.hcrc && s.pending > beg) {
    strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
}
if (s.gzindex === s.gzhead.extra.length) {
    s.gzindex = 0;
    s.status = NAME_STATE;
}
else {
    s.status = NAME_STATE;
}
}
if (s.status === NAME_STATE) {
    if (s.gzhead.name/* != Z_NULL*/) {
        beg = s.pending; /* start of bytes to update crc */
        // int val;
        do {
            if (s.pending === s.pending_buf_size) {
                if (s.gzhead.hcrc && s.pending > beg) {
                    strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
                }
                flush_pending(strm);
                beg = s.pending;
                if (s.pending === s.pending_buf_size) {
                    val = 1;
                    break;
                }
            }
        } while (1);
        // JS specific: little magic to add zero terminator to end of string
        if (s.gzindex < s.gzhead.name.length) {
            val = s.gzhead.name.charCodeAt(s.gzindex) & 0xff;
        } else {
            val = 0;
        }
        put_byte(s, val);
while (val !== 0);

if (s.gzhead.hcrc && s.pending > beg) {
    strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
}
if (val === 0) {
    s.gzindex = 0;
    s.status = COMMENT_STATE;
}
else {
    s.status = COMMENT_STATE;
}
}
if (s.status === COMMENT_STATE) {
    if (s.gzhead.comment/* != Z_NULL*/) {
        beg = s.pending;  /* start of bytes to update crc */
        // int val;
        do {
            if (s.pending === s.pending_buf_size) {
                if (s.gzhead.hcrc && s.pending > beg) {
                    strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
                }
                flush_pending(strm);
                beg = s.pending;
                if (s.pending === s.pending_buf_size) {
                    val = 1;
                    break;
                }
            }
        } while (val !== 0);
        if (s.gzhead.hcrc && s.pending > beg) {
            strm.adler = crc32(strm.adler, s.pending_buf, s.pending - beg, beg);
        }
        if (val === 0) {
            s.status = HCRC_STATE;
        }
    }
}
else {

}
s.status = HCRC_STATE;
}

if (s.status === HCRC_STATE) {
    if (s.gzhead.hcrc) {
        if (s.pending + 2 > s.pending_buf_size) {
            flush_pending(strm);
        }
        if (s.pending + 2 <= s.pending_buf_size) {
            put_byte(s, strm.adler & 0xff);
            put_byte(s, (strm.adler >> 8) & 0xff);
            strm.adler = 0; //crc32(0L, Z_NULL, 0);
            s.status = BUSY_STATE;
        }
    } else {
        s.status = BUSY_STATE;
    }
}

//#endif

/* Flush as much pending output as possible */
if (s.pending !== 0) {
    flush_pending(strm);
    if (strm.avail_out === 0) {
        /* Since avail_out is 0, deflate will be called again with
         * more output space, but possibly with both pending and
         * avail_in equal to zero. There won't be anything to do,
         * but this is not an error situation so make sure we
         * return OK instead of BUF_ERROR at next call of deflate:
         */
        s.last_flush = -1;
        return Z_OK;
    }

    /* Make sure there is something to do and avoid duplicate consecutive
     * flushes. For repeated and useless calls with Z_FINISH, we keep
     * returning Z_STREAM_END instead of Z_BUF_ERROR.
     */
    } else if (strm.avail_in === 0 && rank(flush) <= rank(old_flush) &&
        flush !== Z_FINISH) {
        return err(strm, Z_BUF_ERROR);
    }

    /* User must not provide more input after the first FINISH: */
    if (s.status === FINISH_STATE && strm.avail_in !== 0) {
        return err(strm, Z_BUF_ERROR);
    }
/* Start a new block or continue the current one. */
if (strm.avail_in !== 0 || s.lookahead !== 0 ||
    (flush !== Z_NO_FLUSH && s.status !== FINISH_STATE)) {
    var bstate = (s.strategy === Z_HUFFMAN_ONLY) ?
                 deflate_huff(s, flush) :
                 (s.strategy === Z_RLE ?
                  deflate_rle(s, flush) :
                  configuration_table[s.level].func(s, flush));

    if (bstate === BS_FINISH_STARTED || bstate === BS_FINISH_DONE) {
        s.status = FINISH_STATE;
    }
    if (bstate === BS_NEED_MORE || bstate === BS_FINISH_STARTED) {
        if (strm.avail_out === 0) {
            s.last_flush = -1;
            /* avoid BUF_ERROR next call, see above */
        }
        return Z_OK;
        /* If flush != Z_NO_FLUSH && avail_out == 0, the next call
         * of deflate should use the same flush parameter to make sure
         * that the flush is complete. So we don't have to output an
         * empty block here, this will be done at next call. This also
         * ensures that for a very small output buffer, we emit at most
         * one empty block.
         */
    }
    if (bstate === BS_BLOCK_DONE) {
        if (flush === Z_PARTIAL_FLUSH) {
            trees._tr_align(s);
        } else if (flush !== Z_BLOCK) { /* FULL_FLUSH or SYNC_FLUSH */

            trees._tr_stored_block(s, 0, 0, false);
            /* For a full flush, this empty block will be recognized
             * as a special marker by inflate_sync().
             */
        if (flush === Z_FULL_FLUSH) {
            //** CLEAR_HASH(s); ***/
            //* forget history */
            zero(s.head); // Fill with NIL (= 0);

            if (s.lookahead === 0) {
                s.strstart = 0;
                s.block_start = 0;
                s.insert = 0;
            }
        }
        flush_pending(strm);
if (strm.avail_out === 0) {
  s.last_flush = -1; /* avoid BUF_ERROR at next call, see above */
  return Z_OK;
}
//Assert(strm->avail_out > 0, "bug2");
//if (strm.avail_out <= 0) { throw new Error("bug2");}

if (flush !== Z_FINISH) { return Z_OK; }
if (s.wrap <= 0) { return Z_STREAM_END; }

/* Write the trailer */
if (s.wrap === 2) {
  put_byte(s, strm.adler & 0xff);
  put_byte(s, (strm.adler >> 8) & 0xff);
  put_byte(s, (strm.adler >> 16) & 0xff);
  put_byte(s, (strm.adler >> 24) & 0xff);
  put_byte(s, strm.total_in & 0xff);
  put_byte(s, (strm.total_in >> 8) & 0xff);
  put_byte(s, (strm.total_in >> 16) & 0xff);
  put_byte(s, (strm.total_in >> 24) & 0xff);
}
else {
  putShortMSB(s, strm.adler >>> 16);
  putShortMSB(s, strm.adler & 0xffff);
}

flush_pending(strm);
/* If avail_out is zero, the application will call deflate again
 * to flush the rest.
 */
if (s.wrap > 0) { s.wrap = -s.wrap; }
/* write the trailer only once! */
return s.pending !== 0 ? Z_OK : Z_STREAM_END;

function deflateEnd(strm) {
  var status;

  if (!strm/*== Z_NULL*/ || !strm.state/*== Z_NULL*/) {
    return Z_STREAM_ERROR;
  }

  status = strm.state.status;
  if (status !== INIT_STATE &&
      status !== EXTRA_STATE &&
status !== NAME_STATE &&
status !== COMMENT_STATE &&
status !== HCRC_STATE &&
status !== BUSY_STATE &&
status !== FINISH_STATE
} {
    return err(strm, Z_STREAM_ERROR);
}

strm.state = null;

return status === BUSY_STATE ? err(strm, Z_DATA_ERROR) : Z_OK;

/*============================================================================
 * Initializes the compression dictionary from the given byte
 * sequence without producing any compressed output.
 */
function deflateSetDictionary(strm, dictionary) {
    var dictLength = dictionary.length;

    var s;
var str, n;
var wrap;
var avail;
var next;
var input;
var tmpDict;

if (!strm/*== Z_NULL*/ || !strm.state/*== Z_NULL*/)
    return Z_STREAM_ERROR;

s = strm.state;
wrap = s.wrap;

if (wrap === 2 || (wrap === 1 && s.status !== INIT_STATE) || s.lookahead)
    return Z_STREAM_ERROR;

/* when using zlib wrappers, compute Adler-32 for provided dictionary */
if (wrap === 2 || (wrap === 1 && s.status !== INIT_STATE) || s.lookahead)
    return Z_STREAM_ERROR;

s = strm.state;
wrap = s.wrap;

if (wrap === 2 || (wrap === 1 && s.status !== INIT_STATE) || s.lookahead)
    return Z_STREAM_ERROR;

/* when using zlib wrappers, compute Adler-32 for provided dictionary */
if (wrap === 1) {
    /* adler32(strm->adler, dictionary, dictLength); */
    strm.adler = adler32(strm.adler, dictionary, dictLength, 0);
}

s.wrap = 0;  /* avoid computing Adler-32 in read_buf */
/* if dictionary would fill window, just replace the history */
if (dictLength >= s.w_size) {
    if (wrap === 0) {/* already empty otherwise */
       /*** CLEAR_HASH(s); ****/
        zero(s.head); // Fill with NIL (= 0);
        s.strstart = 0;
        s.block_start = 0;
        s.insert = 0;
    }
    /* use the tail */
    // dictionary = dictionary.slice(dictLength - s.w_size);
    tmpDict = new utils.Buf8(s.w_size);
    utils.arraySet(tmpDict, dictionary, dictLength - s.w_size, s.w_size, 0);
    dictionary = tmpDict;
    dictLength = s.w_size;
}
/* insert dictionary into window and hash */
avail = strm.avail_in;
next = strm.next_in;
input = strm.input;
strm.avail_in = dictLength;
strm.next_in = 0;
strm.input = dictionary;
fill_window(s);
while (s.lookahead >= MIN_MATCH) {
    str = s.strstart;
    n = s.lookahead - (MIN_MATCH - 1);
    do {
        /* UPDATE_HASH(s, s->ins_h, s->window[str + MIN_MATCH-1]); */
        s.ins_h = ((s.ins_h << s.hash_shift) ^ s.window[str + MIN_MATCH-1]) & s.hash_mask;
        s.prev[str & s.w_mask] = s.head[s.ins_h];
        s.head[s.ins_h] = str;
        str++;
    } while (--n);
    s.strstart = str;
    s.lookahead = MIN_MATCH - 1;
    fill_window(s);
}
fill_window(s);
while (s.strstart += s.lookahead;
        s.block_start = s.strstart;
        s.insert = s.lookahead;
        s.lookahead = 0;
        s.match_length = s.prev_length = MIN_MATCH - 1;
        s.match_available = 0;
        strm.next_in = next;
strm.input = input;
strm.avail_in = avail;
s.wrap = wrap;
return Z_OK;
}

exports.deflateInit = deflateInit;
exports.deflateInit2 = deflateInit2;
exports.deflateReset = deflateReset;
exports.deflateResetKeep = deflateResetKeep;
exports.deflateSetHeader = deflateSetHeader;
exports.deflate = deflate;
exports.deflateEnd = deflateEnd;
exports.deflateSetDictionary = deflateSetDictionary;
exports.deflateInfo = 'pako deflate (from Nodeca project)';

/* Not implemented
exports.deflateBound = deflateBound;
exports.deflateCopy = deflateCopy;
exports.deflateParams = deflateParams;
exports.deflatePending = deflatePending;
exports.deflatePrime = deflatePrime;
exports.deflateTune = deflateTune;
*/

'use strict';

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function GZheader() {
    /* true if compressed data believed to be text */
    this.text     = 0;
    /* modification time */
    this.time     = 0;
    /* extra flags (not used when writing a gzip file) */
    this.xflags   = 0;
    /* operating system */
    this.os       = 0;
    /* pointer to extra field or Z_NULL if none */
    this.extra    = null;
    /* extra field length (valid if extra != Z_NULL) */
    this.extra_len = 0; // Actually, we don't need it in JS,
                         // but leave for few code modifications
    this.done = false;
}

module.exports = GZheader;

'}

'use strict';

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// See state defs from inflate.js
var BAD = 30;    /* got a data error -- remain here until reset */
var TYPE = 12;   /* i: waiting for type bits, including last-flag bit */

/*
 Decode literal, length, and distance codes and write out the resulting
 literal and match bytes until either not enough input or output is
 available, an end-of-block is encountered, or a data error is encountered.
 When large enough input and output buffers are supplied to inflate(), for
 example, a 16K input buffer and a 64K output buffer, more than 95% of the
 inflate execution time is spent in this routine.

Entry assumptions:

    state.mode === LEN
    strm.avail_in >= 6
    strm.avail_out >= 258
    start >= strm.avail_out
    state.bits < 8

On return, state.mode is one of:

    LEN -- ran out of enough output space or enough available input
    TYPE -- reached end of block code, inflate() to interpret next block
    BAD -- error in block data

Notes:

- The maximum input bits used by a length/distance pair is 15 bits for the
  length code, 5 bits for the length extra, 15 bits for the distance code,
  and 13 bits for the distance extra. This totals 48 bits, or six bytes.
  Therefore if strm.avail_in >= 6, then there is enough input to avoid
  checking for available input while decoding.

- The maximum bytes that a single length/distance pair can output is 258
bytes, which is the maximum length that can be coded. inflate_fast()
requires strm.avail_out >= 258 for each loop to avoid checking for
output space.
*/
module.exports = function inflate_fast(strm, start) {
  var state;
  var _in; /* local strm.input */
  var last; /* have enough input while in < last */
  var _out; /* local strm.output */
  var beg; /* inflate()'s initial strm.output */
  var end; /* while out < end, enough space available */
  /*ifdef INFLATE STRICT*/
  var dmax; /* maximum distance from zlib header */
  /*endif*/
  var wsize; /* window size or zero if not using window */
  var whave; /* valid bytes in the window */
  var wnext; /* window write index */

  // Use `s_window` instead `window`, avoid conflict with instrumentation tools
  var s_window; /* allocated sliding window, if wsize != 0 */
  var hold; /* local strm.hold */
  var bits; /* local strm.bits */
  var lcode; /* local strm.lencode */
  var dcode; /* local strm.distcode */
  var lmask; /* mask for first level of length codes */
  var dmask; /* mask for first level of distance codes */
  var here; /* retrieved table entry */
  var op; /* code bits, operation, extra bits, or */
  /* window position, window bytes to copy */
  var len; /* match length, unused bytes */
  var dist; /* match distance */
  var from; /* where to copy match from */
  var from_source;

  var input, output; // JS specific, because we have no pointers

  /* copy state to local variables */
  state = strm.state;
  //here = state.here;
  _in = strm.next_in;
  input = strm.input;
  last = _in + (strm.avail_in - 5);
  _out = strm.next_out;
  output = strm.output;
  beg = _out - (start - strm.avail_out);
  end = _out + (strm.avail_out - 257);
  /*ifdef INFLATE STRICT*/
  dmax = state.dmax;
//
#endif

wsize = state.wsize;
whave = state.whave;
wnext = state.wnext;
s_window = state.window;
hold = state.hold;
bits = state.bits;
lcode = state.lencode;
dcode = state.distcode;
lmask = (1 << state.lenbits) - 1;
dmask = (1 << state.distbits) - 1;

/* decode literals and length/distances until end-of-block or not enough
   input data or output space */

top:
do {
  if (bits < 15) {
    hold += input[_in++] << bits;
    bits += 8;
    hold += input[_in++] << bits;
    bits += 8;
  }
  here = lcode[hold & lmask];

dolen:
  for (;;) { // Goto emulation
    op = here >>> 24/*here.bits*/;
    hold >>>= op;
    bits -= op;
    op = (here >>> 16) & 0xff/*here.op*/;
    if (op === 0) {                          /* literal */
      //Tracevv((stderr, here.val >= 0x20 && here.val < 0x7f ?
      //        "inflate:         literal '%c'
" :
      //        "inflate:         literal 0x%02x
", here.val));
      output[_out++] = here & 0xffff/*here.val*/;
    } else if (op & 16) {                     /* length base */
      len = here & 0xffff/*here.val*/;
      op &= 15;                              /* number of extra bits */
      if (op) {
        if (bits < op) {
          hold += input[_in++] << bits;
          bits += 8;
        }
        len += hold & ((1 << op) - 1);
hold >>= op;
bits -= op;
}
//Tracevv((stderr, "inflate: length %u\n", len));
if (bits < 15) {
    hold += input[_in++] << bits;
    bits += 8;
    hold += input[_in++] << bits;
    bits += 8;
}
here = dcode[hold & dmask];

dodist:
for (;;) { // goto emulation
    op = here >>> 24/*here.bits*/;
    hold >>= op;
    bits -= op;
    op = (here >>> 16) & 0xff/*here.op*/;
    if (op & 16) {                      /* distance base */
        dist = here & 0xffff/*here.val*/;
        op &= 15;                       /* number of extra bits */
        if (bits < op) {
            hold += input[_in++] << bits;
            bits += 8;
        }
        if (bits < op) {
            hold += input[_in++] << bits;
            bits += 8;
        }
        dist += hold & ((1 << op) - 1);
    }
    if (op & 16) { /* distance base */
        dist = here & 0xffff/*here.val*/;
        op &= 15; /* number of extra bits */
        if (bits < op) {
            hold += input[_in++] << bits;
            bits += 8;
        }
        if (bits < op) {
            hold += input[_in++] << bits;
            bits += 8;
        }
    }
}
if (op & 16) {
    /* distance base */
    dist = here & 0xffff/*here.val*/;
    op &= 15; /* number of extra bits */
    if (bits < op) {
        hold += input[_in++] << bits;
        bits += 8;
    }
    if (bits < op) {
        hold += input[_in++] << bits;
        bits += 8;
    }
}
#elseif INFLATE_STRICT
    if (dist > dmax) {
        strm.msg = 'invalid distance too far back';
        state.mode = BAD;
        break top;
    }
#endif
//Tracevv((stderr, "inflate: distance %u\n", dist));
if (dist > whave) {
    if (state.sane) {
        strm.msg = 'invalid distance too far back';
        state.mode = BAD;
    }
}
break top;
}

// (!) This block is disabled in zlib defaults,
// don't enable it for binary compatibility
#ifdef INFLATE_ALLOW_INVALID_DISTANCE_TOO_FAR_ARRR
// if (len <= op - whave) {
//     do {
//         output[_out++] = 0;
//     } while (--len);
//     continue top;
// }
// len -= op - whave;
// do {
//     output[_out++] = 0;
// } while (--op > whave);
// if (op === 0) {
//     from = _out - dist;
//     do {
//         output[_out++] = output[from++];
//     } while (--len);
//     continue top;
// }
#else

from = 0; // window index
from_source = s_window;
if (wnext === 0) {           /* very common case */
    from += wsize - op;
    if (op < len) { /* some from window */
        len -= op;
        do {
            output[_out++] = s_window[from++];
        } while (--op);
        from = _out - dist; /* rest from output */
        from_source = output;
    }
} else if (wnext < op) { /* wrap around window */
    from += wsize + wnext - op;
    op -= wnext;
    if (op < len) { /* some from end of window */
        len -= op;
        do {
            output[_out++] = s_window[from++];
        } while (--op);
        from = 0;
        if (wnext < len) { /* some from start of window */

}
op = wnext;
len -= op;
do {
    output[ _out++ ] = s_window[ from++ ];
} while (--op);
from = _out - dist; /* rest from output */
from_source = output;
}

else { /* contiguous in window */
    from += wnext - op;
    if (op < len) { /* some from window */
        len -= op;
        do {
            output[ _out++ ] = s_window[ from++ ];
        } while (--op);
        from = _out - dist; /* rest from output */
        from_source = output;
    }
}

while (len > 2) {
    output[ _out++ ] = from_source[ from++ ];
    output[ _out++ ] = from_source[ from++ ];
    output[ _out++ ] = from_source[ from++ ];
    len -= 3;
}
if (len) {
    output[ _out++ ] = from_source[ from++ ];
    if (len > 1) {
        output[ _out++ ] = from_source[ from++ ];
    }
}
else {
    from = _out - dist; /* copy direct from output */
    do { /* minimum length is three */
        output[ _out++ ] = output[ from++ ];
        output[ _out++ ] = output[ from++ ];
        output[ _out++ ] = output[ from++ ];
        len -= 3;
    } while (len > 2);
    if (len) {
        output[ _out++ ] = output[ from++ ];
        if (len > 1) {
            output[ _out++ ] = output[ from++ ];
        }
    }
else if ((op & 64) === 0) {/* 2nd level distance code */
    here = dcode[(here & 0xffff)/*here.val*/ + (hold & ((1 << op) - 1))];
    continue dodist;
}
else {
    strm.msg = 'invalid distance code';
    state.mode = BAD;
    break top;
}

break; // need to emulate goto via "continue"
}
}
else if ((op & 64) === 0) {/* 2nd level length code */
    here = lcode[(here & 0xffff)/*here.val*/ + (hold & ((1 << op) - 1))];
    continue dolen;
}
else if (op & 32) {/* end-of-block */
    //Tracevv((stderr, "inflate: end of block\n"));
    state.mode = TYPE;
    break top;
}
else {
    strm.msg = 'invalid literal/length code';
    state.mode = BAD;
    break top;
}

break; // need to emulate goto via "continue"
}
} while (_in < last && _out < end);

/* return unused bytes (on entry, bits < 8, so in won't go too far back) */
len = bits >> 3;
_in -= len;
bits -= len << 3;
hold &= (1 << bits) - 1;

/* update state and return */
strm.next_in = _in;
strm.next_out = _out;
strm.avail_in = (_in < last ? 5 + (last - _in) : 5 - (_in - last));
strm.avail_out = (_out < end ? 257 + (end - _out) : 257 - (_out - end));
state.hold = hold;
state.bits = bits;
return;
''use strict'';

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var utils = require('../utils/common');
var adler32 = require('./adler32');
var crc32 = require('./crc32');
var inflate_fast = require('./inffast');
var inflate_table = require('./inftrees');

var CODES = 0;
var LENS = 1;
var DIST = 2;

/*@ Public constants */
/*/ Allowed flush values; see deflate() and inflate() below for details */
//var Z_NO_FLUSH = 0;
//var Z_PARTIAL_FLUSH = 1;
//var Z_SYNC_FLUSH = 2;
//var Z_FULL_FLUSH = 3;
var Z_FINISH = 4;
var Z_BLOCK = 5;
var Z_TREES = 6;
/* Return codes for the compression/decompression functions. Negative values are errors, positive values are used for special but normal events. */

var Z_OK            = 0;
var Z_STREAM_END    = 1;
var Z_NEED_DICT     = 2;
var Z_STREAM_ERROR  = -2;
var Z_DATA_ERROR    = -3;
var Z_MEM_ERROR     = -4;
var Z_BUF_ERROR     = -5;
var Z_VERSION_ERROR = -6;

/* The deflate compression method */
var Z_DEFLATED  = 8;

/* STATES ==============================================================*/

var    HEAD = 1;       /* i: waiting for magic header */
var    FLAGS = 2;      /* i: waiting for method and flags (gzip) */
var    TIME = 3;       /* i: waiting for modification time (gzip) */
var    OS = 4;         /* i: waiting for extra flags and operating system (gzip) */
var    EXLEN = 5;      /* i: waiting for extra length (gzip) */
var    EXTRA = 6;      /* i: waiting for extra bytes (gzip) */
var    NAME = 7;       /* i: waiting for end of file name (gzip) */
var    COMMENT = 8;    /* i: waiting for end of comment (gzip) */
var    HCRC = 9;       /* i: waiting for header crc (gzip) */
var    DICTID = 10;    /* i: waiting for dictionary check value */
var    DICT = 11;      /* waiting for inflateSetDictionary() call */
var    TYPE = 12;      /* i: waiting for type bits, including last-flag bit */
var    TYPEDO = 13;    /* i: same, but skip check to exit inflate on new block */
var    STORED = 14;    /* i: waiting for stored size (length and complement) */
var    COPY_ = 15;     /* i/o: same as COPY below, but only first time in */
var    COPY = 16;      /* i/o: waiting for input or output to copy stored block */
var    TABLE = 17;     /* i: waiting for dynamic block table lengths */
var    LENLENS = 18;   /* i: waiting for code length code lengths */
var    CODELENS = 19;  /* i: waiting for length/lit and distance code lengths */
var    LEN_ = 20;      /* i: same as LEN below, but only first time in */
var    LEN = 21;       /* i: waiting for length/lit/eob code */
var    LENEXT = 22;    /* i: waiting for length extra bits */
var    DIST = 23;      /* i: waiting for distance code */
var    DISTEXT = 24;   /* i: waiting for distance extra bits */
var    MATCH = 25;     /* o: waiting for output space to copy string */
var    LIT = 26;       /* o: waiting for output space to write literal */
var    CHECK = 27;     /* i: waiting for 32-bit check value */
var LENGTH = 28; /* i: waiting for 32-bit length (gzip) */
var DONE = 29; /* finished check, done -- remain here until reset */
var BAD = 30; /* got a data error -- remain here until reset */
var MEM = 31; /* got an inflate() memory error -- remain here until reset */
var SYNC = 32; /* looking for synchronization bytes to restart inflate() */

/* ===========================================================================*/
var ENOUGH_LENS = 852;
var ENOUGH_DIST = 592;
//var ENOUGH = (ENOUGH_LENS+ENOUGH_DIST);

var MAX_WBITS = 15;
/* 32K LZ77 window */
var DEF_WBITS = MAX_WBITS;

function zswap32(q) {
    return (((q >>> 24) & 0xff) +
            ((q >>> 8) & 0xff00) +
            ((q & 0xff00) << 8) +
            ((q & 0xff) << 24));
}

function InflateState() {
    this.mode = 0; /* current inflate mode */
    this.last = false; /* true if processing last block */
    this.wrap = 0; /* bit 0 true for zlib, bit 1 true for gzip */
    this.havedict = false; /* true if dictionary provided */
    this.flags = 0; /* gzip header method and flags (0 if zlib) */
    this.dmax = 0; /* zlib header max distance (INFLATE_STRICT) */
    this.check = 0; /* protected copy of check value */
    this.total = 0; /* protected copy of output count */
    // TODO: may be {
    this.head = null; /* where to save gzip header information */

    /* sliding window */
    this.wbits = 0; /* log base 2 of requested window size */
    this.wsize = 0; /* window size or zero if not using window */
    this.whave = 0; /* valid bytes in the window */
    this.wnext = 0; /* window write index */
    this.window = null; /* allocated sliding window, if needed */

    /* bit accumulator */
    this.hold = 0; /* input bit accumulator */
this.bits = 0;              /* number of bits in "in" */
/* for string and stored block copying */
this.length = 0;            /* literal or length of data to copy */
this.offset = 0;            /* distance back to copy string from */
/* for table and code decoding */
this.extra = 0;             /* extra bits needed */
/* fixed and dynamic code tables */
this.lencode = null;        /* starting table for length/literal codes */
this.distcode = null;       /* starting table for distance codes */
this.lenbits = 0;           /* index bits for lencode */
this.distbits = 0;          /* index bits for distcode */
/* dynamic table building */
this.ncode = 0;             /* number of code length code lengths */
this.nlen = 0;              /* number of length code lengths */
this.ndist = 0;             /* number of distance code lengths */
this.have = 0;              /* number of code lengths in lens[] */
this.next = null;            /* next available space in codes[] */
this.lens = new utils.Buf16(320); /* temporary storage for code lengths */
this.work = new utils.Buf16(288); /* work area for code table building */
/*
because we don't have pointers in js, we use lencode and distcode directly 
as buffers so we don't need codes */
//this.codes = new utils.Buf32(ENOUGH);       /* space for code tables */
this.lendyn = null;         /* dynamic table for length/literal codes (JS specific) */
this.distdyn = null;        /* dynamic table for distance codes (JS specific) */
this.sane = 0;              /* if false, allow invalid distance too far */
this.back = 0;              /* bits back of last unprocessed length/lit */
this.was = 0;               /* initial length of match */
}

function inflateResetKeep(strm) {
    var state;

    if (!strm || !strm.state) { return Z_STREAM_ERROR; }
    state = strm.state;
    strm.total_in = strm.total_out = state.total = 0;
    strm.msg = ''; /*Z_NULL*/
    if (state.wrap) {       /* to support ill-conceived Java test suite */
        strm.adler = state.wrap & 1;
    }

    state.mode = HEAD;
state.last = 0;
state.havedict = 0;
state.dmax = 32768;
state.head = null/*Z_NULL*/;
state.hold = 0;
state.bits = 0;
//state.lencode = state.distcode = state.next = state.codes;
state.lencode = state.lendyn = new utils.Buf32(ENOUGH_LENS);
state.distcode = state.distdyn = new utils.Buf32(ENOUGH_DISTS);

state.sane = 1;
state.back = -1;
//Tracev((stderr, "inflate: reset\n"));
return Z_OK;
}

function inflateReset(strm) {
var state;

if (!strm || !strm.state) { return Z_STREAM_ERROR; }
state = strm.state;
state.wsize = 0;
state.whave = 0;
state.wnext = 0;
return inflateResetKeep(strm);
}

function inflateReset2(strm, windowBits) {
var wrap;
var state;

/* get the state */
if (!strm || !strm.state) { return Z_STREAM_ERROR; }
state = strm.state;

/* extract wrap request from windowBits parameter */
if (windowBits < 0) {
    wrap = 0;
    windowBits = -windowBits;
}
else {
    wrap = (windowBits >> 4) + 1;
    if (windowBits < 48) {
        windowBits &= 15;
    }
}
}
/* set number of window bits, free window if different */
if (windowBits && (windowBits < 8 || windowBits > 15)) {
    return Z_STREAM_ERROR;
}
if (state.window !== null && state.wbits !== windowBits) {
    state.window = null;
}

/* update state and reset the rest of it */
state.wrap = wrap;
state.wbits = windowBits;
return inflateReset(strm);
}

function inflateInit2(strm, windowBits) {
    var ret;
    var state;

    if (!strm) { return Z_STREAM_ERROR; }
    //strm.msg = Z_NULL;                 /* in case we return an error */

    state = new InflateState();

    //if (state === Z_NULL) return Z_MEM_ERROR;
    //Tracev((stderr, "inflate: allocated\n"));
    strm.state = state;
    state.window = null/*Z_NULL*/;
    ret = inflateReset2(strm, windowBits);
    if (ret !== Z_OK) {
        strm.state = null/*Z_NULL*/;
    }
    return ret;
}

function inflateInit(strm) {
    return inflateInit2(strm, DEF_WBITS);
}

/*
Return state with length and distance decoding tables and index sizes set to
fixed code decoding. Normally this returns fixed tables from inffixed.h.
If BUILDFIXED is defined, then instead this routine builds the tables the
first time it's called, and returns those tables the first time and
thereafter. This reduces the size of the code by about 2K bytes, in
exchange for a little execution time. However, BUILDFIXED should not be
used for threaded applications, since the rewriting of the tables and virgin
may not be thread-safe.
*/
var virgin = true;

var lenfix, distfix; // We have no pointers in JS, so keep tables separate

function fixedtables(state) {
    /* build fixed huffman tables if first call (may not be thread safe) */
    if (virgin) {
        var sym;

        lenfix = new utils.Buf32(512);
        distfix = new utils.Buf32(32);

        /* literal/length table */
        sym = 0;
        while (sym < 144) { state.lens[sym++] = 8; }
        while (sym < 256) { state.lens[sym++] = 9; }
        while (sym < 280) { state.lens[sym++] = 7; }
        while (sym < 288) { state.lens[sym++] = 8; }

        inflate_table(LENS, state.lens, 0, 288, lenfix, 0, state.work, { bits: 9 });

        /* distance table */
        sym = 0;
        while (sym < 32) { state.lens[sym++] = 5; }

        inflate_table(DISTS, state.lens, 0, 32, distfix, 0, state.work, { bits: 5 });

        /* do this just once */
        virgin = false;
    }

    state.lencode = lenfix;
    state.lenbits = 9;
    state.distcode = distfix;
    state.distbits = 5;
}

/*
Update the window with the last wsize (normally 32K) bytes written before returning. If window does not exist yet, create it. This is only called when a window is already in use, or when output has been written during this inflate call, but the end of the deflate stream has not been reached yet.
It is also called to create a window for dictionary data when a dictionary is loaded.

Providing output buffers larger than 32K to inflate() should provide a speed
advantage, since only the last 32K of output is copied to the sliding window
upon return from inflate(), and since all distances after the first 32K of
output will fall in the output data, making match copies simpler and faster.
The advantage may be dependent on the size of the processor's data caches.

*/
function updatewindow(strm, src, end, copy) {
    var dist;
    var state = strm.state;

    /* if it hasn't been done already, allocate space for the window */
    if (state.window === null) {
        state.wsize = 1 << state.wbits;
        state.wnext = 0;
        state.whave = 0;

        state.window = new utils.Buf8(state.wsize);
    }

    /* copy state->wsize or less output bytes into the circular window */
    if (copy >= state.wsize) {
        utils.arraySet(state.window, src, end - state.wsize, state.wsize, 0);
        state.wnext = 0;
        state.whave = state.wsize;
    } else {
        dist = state.wsize - state.wnext;
        if (dist > copy) {
            dist = copy;
        }
        //zmemcpy(state->window + state->wnext, end - copy, dist);
        utils.arraySet(state.window, src, end - copy, dist, state.wnext);
        copy -= dist;
        if (copy) {
            //zmemcpy(state->window, end - copy, copy);
            utils.arraySet(state.window, src, end - copy, copy, 0);
            state.wnext = copy;
            state.whave = state.wsize;
        } else {
            state.wnext += dist;
            if (state.wnext === state.wsize) { state.wnext = 0; }
            if (state.whave < state.wsize) { state.whave += dist; }
        }
    }
    return 0;
}

function inflate(strm, flush) {

var state;
var input, output;  // input/output buffers
var next;  /* next input INDEX */
var put;  /* next output INDEX */
var have, left;  /* available input and output */
var hold;  /* bit buffer */
var bits;  /* bits in bit buffer */
var _in, _out;  /* save starting available input and output */
var copy;  /* number of stored or match bytes to copy */
var from;  /* where to copy match bytes from */
var from_source;
var here = 0;  /* current decoding table entry */
//var_bits, here_op, here_val;  // paked "here" denormalized (JS specific)
//var_last, /* parent table entry */
var last_bits, last_op, last_val;  // paked "last" denormalized (JS specific)
var len;  /* length to copy for repeats, bits to drop */
var ret;  /* return code */
var hbuf = new utils.Buf8(4);  /* buffer for gzip header crc calculation */
var opts;
var n;  // temporary var for NEED_BITS

var order = /* permutation of code lengths */
    [ 16, 17, 18, 0, 8, 7, 9, 6, 10, 5, 11, 4, 12, 3, 13, 2, 14, 1, 15 ];

if (!strm || !strm.state || !strm.output ||
    (!strm.input && strm.avail_in !== 0)) {
    return Z_STREAM_ERROR;
}

state = strm.state;
if (state.mode === TYPE) { state.mode = TYPEDO; }  /* skip check */

//-- LOAD() ---
put = strm.next_out;
output = strm.output;
left = strm.avail_out;
next = strm.next_in;
input = strm.input;
have = strm.avail_in;
hold = state.hold;
bits = state.bits;
//--

_in = have;
_out = left;
ret = Z_OK;

inf_leave: // goto emulation
for (;;) {
    switch (state.mode) {
    case HEAD:
        if (state.wrap === 0) {
            state.mode = TYPEDO;
            break;
        }
        //== NEEDBITS(16);
        while (bits < 16) {
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
            bits += 8;
        }
        //==/
        if ((state.wrap & 2) & hold === 0x8b1f) { /* gzip header */
            state.check = 0/*crc32(0L, Z_NULL, 0)*/;
            //== CRC2(state.check, hold);
            hbuf[0] = hold & 0xff;
            hbuf[1] = (hold >>> 8) & 0xff;
            state.check = crc32(state.check, hbuf, 2, 0);
            //==/
            //== INITBITS();
            hold = 0;
            bits = 0;
            //==/
            state.mode = FLAGS;
            break;
        }
        state.flags = 0; /* expect zlib header */
        if (state.head) {
            state.head.done = false;
        }
        if (!(state.wrap & 1) || /* check if zlib header allowed */
        (hold & 0xff)/BITS(8)* <= (hold >>> 8)) % 31) {
            strm.msg = 'incorrect header check';
            state.mode = BAD;
            break;
        }
        if ((hold & 0x0f)/BITS(4)* == Z_DEFLATED) {
            strm.msg = 'unknown compression method';
            state.mode = BAD;
            break;
        }
    }
//--- DROPBITS(4) ---//
hold >>= 4;
bits -= 4;
//---//
len = (hold & 0x0f)*BITS(4)* + 8;
if (state.wbits === 0) {
    state.wbits = len;
}
else if (len > state.wbits) {
    strm.msg = 'invalid window size';
    state.mode = BAD;
    break;
}
state.dmax = 1 << len;
//Tracev((stderr, "inflate: zlib header ok\n"));
strm.adler = state.check = 1/*adler32(0L, Z_NULL, 0)*/;
state.mode = hold & 0x200 ? DICTID : TYPE;
//=== INITBITS();
hold = 0;
bits = 0;
//===//
break;
case FLAGS:
//=== NEEDBITS(16); */
while (bits < 16) {
    if (have === 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
    bits += 8;
}
//===//
state.flags = hold;
if (!!(state.flags & 0xff) !== Z_DEFLATED) {
    strm.msg = 'unknown compression method';
    state.mode = BAD;
    break;
}
if (state.flags & 0xe000) {
    strm.msg = 'unknown header flags set';
    state.mode = BAD;
    break;
}
if (state.flags & 0x0200) {
    strm.msg = 'unknown header flags set';
    state.mode = BAD;
    break;
}
if (state.head) {
    state.head.text = ((hold >> 8) & 1);
}
if (state.flags & 0x0000) {
    strm.msg = 'unknown header flags set';
    state.mode = BAD;
    break;
}
if (state.flags & 0x0000) {
    strm.msg = 'unknown header flags set';
    state.mode = BAD;
    break;
}
if (state.head) {
    state.head.text = ((hold >> 8) & 1);
}
if (state.flags & 0x0000) {
    strm.msg = 'unknown header flags set';
    state.mode = BAD;
    break;
}
if (state.flags & 0x0000) {
    strm.msg = 'unknown header flags set';
    state.mode = BAD;
    break;
}
if (state.flags & 0x0000) {
    strm.msg = 'unknown header flags set';
    state.mode = BAD;
    break;
}
if (state.flags & 0x0000) {
    strm.msg = 'unknown header flags set';
    state.mode = BAD;
    break;
}
if (state.flags & 0x0000) {
    strm.msg = 'unknown header flags set';
    state.mode = BAD;
    break;
}
if (state.flags & 0x0000) {
    strm.msg = 'unknown header flags set';
    state.mode = BAD;
    break;
}
if (state.flags & 0x0000) {
    strm.msg = 'unknown header flags set';
    state.mode = BAD;
    break;
}
hbuf[1] = (hold >>> 8) & 0xff;
state.check = crc32(state.check, hbuf, 2, 0);
//===
}
//=== INITBITS();
hold = 0;
bits = 0;
//===
state.mode = TIME;
/*/ falls through */
case TIME:
//=== NEEDBITS(32); */
while (bits < 32) {
    if (have === 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
    bits += 8;
}
//===
if (state.head) {
    state.head.time = hold;
}
if (state.flags & 0x0200) {
   //=== CRC4(state.check, hold)
    hbuf[0] = hold & 0xff;
    hbuf[1] = (hold >>> 8) & 0xff;
    hbuf[2] = (hold >>> 16) & 0xff;
    hbuf[3] = (hold >>> 24) & 0xff;
    state.check = crc32(state.check, hbuf, 4, 0);
    //===
}
//=== INITBITS();
hold = 0;
bits = 0;
//===
state.mode = OS;
/*/ falls through */
case OS:
//=== NEEDBITS(16); */
while (bits < 16) {
    if (have === 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
    bits += 8;
}
//===
if (state.head) {
    state.head.xflags = (hold & 0xff);
state.head.os = (hold >> 8);
}
if (state.flags & 0x0200) {
    //== CRC2(state.check, hold);
    hbuf[0] = hold & 0xff;
    hbuf[1] = (hold >>> 8) & 0xff;
    state.check = crc32(state.check, hbuf, 2, 0);
    //===
}
//== INITBITS();
hold = 0;
bits = 0;
//===
state.mode = EXLEN;
/* falls through */
case EXLEN:
if (state.flags & 0x0400) {
    //== NEEDBITS(16); */
    while (bits < 16) {
        if (have === 0) { break inf_leave; }
        have--;
        hold += input[next++] << bits;
        bits += 8;
    }
    //===
    state.length = hold;
    if (state.head) {
        state.head.extra_len = hold;
    }
if (state.flags & 0x0200) {
    //== CRC2(state.check, hold);
    hbuf[0] = hold & 0xff;
    hbuf[1] = (hold >>> 8) & 0xff;
    state.check = crc32(state.check, hbuf, 2, 0);
    //===
}
//== INITBITS();
hold = 0;
bits = 0;
//===
}
else if (state.head) {
    state.head.extra = null/*Z_NULL*/;
}
state.mode = EXTRA;
/* falls through */
case EXTRA:
if (state.flags & 0x0400) {
copy = state.length;
if (copy > have) { copy = have; }
if (copy) {
    if (state.head) {
        len = state.head.extra_len - state.length;
        if (!state.head.extra) {
            // Use untyped array for more convenient processing later
            state.head.extra = new Array(state.head.extra_len);
        }
        utils.arraySet(
            state.head.extra,
            input,
            next,
            // extra field is limited to 65536 bytes
            // - no need for additional size check
            copy,
            /*len + copy > state.head.extra_max - len ? state.head.extra_max : copy,*/
            len
        );
        // zmemcpy(state.head.extra + len, next,
        //  len + copy > state.head.extra_max ?
        //  state.head.extra_max - len : copy);
    }
    if (state.flags & 0x0200) {
        state.check = crc32(state.check, input, copy, next);
    }
    have -= copy;
    next += copy;
    state.length -= copy;
}
if (state.length) { break inf_leave; }
}
state.length = 0;
state.mode = NAME;
/* falls through */
case NAME:
if (state.flags & 0x0800) {
    if (have === 0) { break inf_leave; }
    copy = 0;
    do {
        // TODO: 2 or 1 bytes?
        len = input[next + copy++];
        /* use constant limit because in js we should not preallocate memory */
        if (state.head && len &&
            (state.length < 65536 /*state.head.name_max*/)) {
            state.head.name += String.fromCharCode(len);
        }
    } while (len && copy < have);
if (state.flags & 0x0200) {
  state.check = crc32(state.check, input, copy, next);
}
have -= copy;
next += copy;
if (len) { break inf_leave; }
}
else if (state.head) {
  state.head.name = null;
}
state.length = 0;
state.mode = COMMENT;
/* falls through */
case COMMENT:
if (state.flags & 0x0100) {
  if (have === 0) { break inf_leave; }
  copy = 0;
  do {
    len = input[next + copy++];
    /* use constant limit because in js we should not preallocate memory */
    if (state.head && len &&
      (state.length < 65536 /*state.head.comm_max*/)) {
      state.head.comment += String.fromCharCode(len);
    }
  } while (len && copy < have);
  if (state.flags & 0x0200) {
    state.check = crc32(state.check, input, copy, next);
  }
  have -= copy;
next += copy;
  if (len) { break inf_leave; }
}
else if (state.head) {
  state.head.comment = null;
}
state.mode = HCRC;
/* falls through */
case HCRC:
if (state.flags & 0x0200) {
  //=== NEEDBITS(16); */
  while (bits < 16) {
    if (have === 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
    bits += 8;
  }
  //===//
if (hold !== (state.check & 0xffff)) {
  strm.msg = 'header crc mismatch';
  state.mode = BAD;
  break;
}
//=== INITBITS();
hold = 0;
bits = 0;
//===//
}
if (state.head) {
  state.head.hcrc = ((state.flags >> 9) & 1);
  state.head.done = true;
}
strm.adler = state.check = 0;
state.mode = TYPE;
break;
case DICTID:
//=== NEEDBITS(32); */
while (bits < 32) {
  if (have === 0) { break inf_leave; }
  have--;
  hold += input[next++] << bits;
  bits += 8;
}
//===//
strm.adler = state.check = zswap32(hold);
//=== INITBITS();
hold = 0;
bits = 0;
//===//
state.mode = DICT;
/* falls through */
case DICT:
if (state.havedict === 0) {
  //--- RESTORE() ---
  strm.next_out = put;
  strm.avail_out = left;
  strm.next_in = next;
  strm.avail_in = have;
  state.hold = hold;
  state.bits = bits;
  //---
  return Z_NEED_DICT;
}
strm.adler = state.check = 1/*adler32(0L, Z_NULL, 0)*/;
state.mode = TYPE;
/* falls through */
case TYPE:
    if (flush === Z_BLOCK || flush === Z_TREES) { break inf_leave; }
/* falls through */
case TYPEDO:
    if (state.last) {
        //--- BYTEBITS() ---//
        hold >>>= bits & 7;
        bits -= bits & 7;
        //---//
        state.mode = CHECK;
        break;
    }
    //=== NEEDBITS(3); */
    while (bits < 3) {
        if (have === 0) { break inf_leave; }
        have--;
        hold += input[next++] << bits;
        bits += 8;
    }
    //===
    state.last = (hold & 0x01)/*BITS(1)*/;
    //--- DROPBITS(1) ---//
    hold >>>= 1;
    bits -= 1;
    //---//
    switch ((hold & 0x03)/*BITS(2)*/) {
        case 0:                             /* stored block */
            //Tracev((stderr, "inflate: stored block%s\n",
            //        state.last ? " (last)" : ")");
            state.mode = STORED;
            break;
        case 1:                             /* fixed block */
            fixedtables(state);
            //Tracev((stderr, "inflate: fixed codes block%s\n",
            //        state.last ? " (last)" : ""));
            state.mode = LEN_;             /* decode codes */
            if (flush === Z_TREES) {
                //--- DROPBITS(2) ---//
                hold >>>= 2;
                bits -= 2;
                //---//
                break inf_leave;
            }
            break;
        case 2:                             /* dynamic block */
            //Tracev((stderr, "inflate: dynamic codes block%s\n",
            //        state.last ? " (last)" : ""));
            }
state.mode = TABLE;
break;
case 3:
    strm.msg = 'invalid block type';
    state.mode = BAD;
}

//--- DROPBITS(2) ---//
hold >>= 2;
bits -= 2;
//---//
break;
case STORED:
//--- BYTEBITS() ---// /* go to byte boundary */
hold >>= bits & 7;
bits -= bits & 7;
//---//
//=== NEEDBITS(32); */
while (bits < 32) {
    if (have === 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
    bits += 8;
}
//===
if ((hold & 0xffff) !== ((hold >>> 16) ^ 0xffff)) {
    strm.msg = 'invalid stored block lengths';
    state.mode = BAD;
    break;
}
state.length = hold & 0xffff;
//Tracev((stderr, "inflate: stored length %u\n",
     state.length));
//=== INITBITS();
hold = 0;
bits = 0;
//===
state.mode = COPY_;
if (flush === Z_TREES) { break inf_leave; }
/* falls through */
case COPY_:
    state.mode = COPY;
    /* falls through */
case COPY:
    copy = state.length;
    if (copy) {
        if (copy > have) { copy = have; }
        if (copy > left) { copy = left; }
        if (copy === 0) { break inf_leave; }
    }
//--- zmemcpy(put, next, copy); ---
utils.arraySet(output, input, next, copy, put);
//---/
have -= copy;
next += copy;
left -= copy;
put += copy;
state.length -= copy;
break;
}
//Tracev((stderr, "inflate: stored end\n"));
state.mode = TYPE;
break;
case TABLE:
//=== NEEDBITS(14); */
while (bits < 14) {
    if (have === 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
    bits += 8;
}
//===
state.nlen = (hold & 0x1f)/*BITS(5)*/ + 257;
//=== DROPBITS(5) ---///
hold >>>= 5;
bits -= 5;
//===
state.ndist = (hold & 0x1f)/*BITS(5)*/ + 1;
//=== DROPBITS(5) ---///
hold >>>= 5;
bits -= 5;
//===
state.ncode = (hold & 0x0f)/*BITS(4)*/ + 4;
//=== DROPBITS(4) ---///
hold >>>= 4;
bits -= 4;
//===
#ifndef PKZIP_BUG_WORKAROUND
if (state.nlen > 286 || state.ndist > 30) {
    strm.msg = 'too many length or distance symbols';
    state.mode = BAD;
    break;
}
#endif
//Tracev((stderr, "inflate: table sizes ok\n"));
state.have = 0;
state.mode = LENLENS;
/* falls through */
case LENLENS:
    while (state.have < state.ncode) {
        ///== NEEDBITS(3);
        while (bits < 3) {
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
            bits += 8;
        }
        ///==/
        state.lens[order[state.have++]] = (hold & 0x07);//BITS(3);
        ///--- DROPBITS(3) ---///
        hold >>>= 3;
        bits -= 3;
        ///---///
    }
    while (state.have < 19) {
        state.lens[order[state.have++]] = 0;
    }
    // We have separate tables & no pointers. 2 commented lines below not needed.
    //state.next = state.codes;
    //state.lencode = state.next;
    // Switch to use dynamic table
    state.lencode = state.lendyn;
    state.lenbits = 7;

    opts = { bits: state.lenbits };
    ret = inflate_table(CODES, state.lens, 0, 19, state.lencode, 0, state.work, opts);
    state.lenbits = opts.bits;

    if (ret) {
        strm.msg = 'invalid code lengths set';
        state.mode = BAD;
        break;
    }
    //Tracev((stderr, "inflate: code lengths ok\n"));
    state.have = 0;
    state.mode = CODELENS;
    /* falls through */
    case CODELENS:
        while (state.have < state.nlen + state.ndist) {
            for (;;) {
                here = state.lencode[hold & ((1 << state.lenbits) - 1)];//BITS(state.lenbits)*/
                here_bits = here >>> 24;
                here_op = (here >>>> 16) & 0xff;
                here_val = here & 0xffff;

                if ((here_bits) <= bits) { break; }
            }
        }

//-- PULLBYTE() --//--
if (have === 0) { break inf_leave; }
have--;
hold += input[next++] << bits;
bits += 8;
//--//--
}
if (here_val < 16) {
    //-- DROPBITS(here.bits) --//--
    hold >>>= here_bits;
    bits -= here_bits;
    //--//--
    state.lens[state.have++] = here_val;
}
else {
    if (here_val === 16) {
        //= NEEDBITS(here.bits + 2);
        n = here_bits + 2;
        while (bits < n) {
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
            bits += 8;
        }
        //=//--
        //-- DROPBITS(here.bits) --//--
        hold >>>= here_bits;
        bits -= here_bits;
        //--//--
        if (state.have === 0) {
            strm.msg = 'invalid bit length repeat';
            state.mode = BAD;
            break;
        }
        len = state.lens[state.have - 1];
        copy = 3 + (hold & 0x03);//BITS(2);
        //= DROPBITS(2) --//--
        hold >>>= 2;
        bits -= 2;
        //--//--
    }
    else if (here_val === 17) {
        //= NEEDBITS(here.bits + 3);
        n = here_bits + 3;
        while (bits < n) {
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
            //--//--
        }
    }
}
bits += 8;
}===//
//-- DROPBITS(here.bits) ///</--
hold >>= here_bits;
bits -= here_bits;
//--//--
len = 0;
copy = 3 + (hold & 0x07); BITS(3);
//-- DROPBITS(3) ///</--
hold >>= 3;
bits -= 3;
//--//--
else {
//-- NEEDBITS(here.bits + 7);
n = here_bits + 7;
while (bits < n) {
    if (have == 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
    bits += 8;
}===//
//-- DROPBITS(here.bits) ///</--
hold >>= here_bits;
bits -= here_bits;
//--//--
len = 0;
copy = 11 + (hold & 0x7f); BITS(7);
//-- DROPBITS(7) ///</--
hold >>= 7;
bits -= 7;
//--//--
} if (state.have + copy > state.nlen + state.ndist) {
    strm.msg = 'invalid bit length repeat';
    state.mode = BAD;
    break;
} while (copy--) {
    state.lens[state.have++] = len;
} /* handle error breaks in while */
if (state.mode == BAD) { break; }
/* check for end-of-block code (better have one) */
if (state.lens[256] === 0) {
    strm.msg = 'invalid code -- missing end-of-block';
    state.mode = BAD;
    break;
}

/* build code tables -- note: do not change the lenbits or distbits
   values here (9 and 6) without reading the comments in inftrees.h
   concerning the ENOUGH constants, which depend on those values */
state.lenbits = 9;

opts = { bits: state.lenbits };
ret = inflate_table(LENS, state.lens, 0, state.nlen, state.lencode, 0, state.work, opts);
// We have separate tables & no pointers. 2 commented lines below not needed.
// state.next_index = opts.table_index;
state.lenbits = opts.bits;
// state.lencode = state.next;
if (ret) {
    strm.msg = 'invalid literal/lengths set';
    state.mode = BAD;
    break;
}

state.distbits = 6;
//state.distcode.copy(state.codes);
// Switch to use dynamic table
state.distcode = state.distdyn;
opts = { bits: state.distbits };
ret = inflate_table(DISTS, state.lens, state.nlen, state.ndist, state.distcode, 0, state.work, opts);
// We have separate tables & no pointers. 2 commented lines below not needed.
// state.next_index = opts.table_index;
state.distbits = opts.bits;
// state.distcode = state.next;
if (ret) {
    strm.msg = 'invalid distances set';
    state.mode = BAD;
    break;
}

//Tracev((stderr, 'inflate:       codes ok
'));
state.mode = LEN_;
if (flush === Z_TREES) { break inf_leave; }
/* falls through */
case LEN_:  
    state.mode = LEN;
/* falls through */
case LEN:
if (have >= 6 && left >= 258) {
    //--- RESTORE() ---
    strm.next_out = put;
    strm.avail_out = left;
    strm.next_in = next;
    strm.avail_in = have;
    state.hold = hold;
    state.bits = bits;
    //---
    inflate_fast(strm, _out);
    //--- LOAD() ---
    put = strm.next_out;
    output = strm.output;
    left = strm.avail_out;
    next = strm.next_in;
    input = strm.input;
    have = strm.avail_in;
    hold = state.hold;
    bits = state.bits;
    //---
    if (state.mode === TYPE) {
        state.back = -1;
    }
    break;
}
state.back = 0;
for (;;) {
    here = state.lencode[hold & ((1 << state.lenbits) - 1)];  /*BITS(state.lenbits)*/
    here_bits = here >>> 24;
    here_op = (here >>> 16) & 0xff;
    here_val = here & 0xffff;
    if (here_bits <= bits) { break; }
    //--- PULLBYTE() ---//
    if (have === 0) { break inf_leave; }
    have--; 
    hold += input[next++] << bits;
    bits += 8;
    //---//
}
if (here_op && (here_op & 0xf0) === 0) {
    last_bits = here_bits;
    last_op = here_op;
    last_val = here_val;
    for (;;) {
                    

here = state.lencode[last_val +
    (hold & ((1 << (last_bits + last_op)) - 1))/BITS(last.bits + last.op)>> last_bits];
here_bits = here >>> 24;
here_op = (here >>> 16) & 0xff;
here_val = here & 0xffff;
if ((last_bits + here_bits) <= bits) { break; }
    //--- PULLBYTE() ---//
if (have === 0) { break inf_leave; }
have--;
hold += input[next++] << bits;
bits += 8;
    //---//
}
    //--- DROPBITS(last.bits) ---//
hold >>>= last_bits;
bits -= last_bits;
    //---//
state.back += last_bits;
}
    //--- DROPBITS(here.bits) ---//
hold >>>= here_bits;
bits -= here_bits;
    //---//
state.back += here_bits;
state.length = here_val;
if (here_op === 0) {
    //Tracevv((stderr, here.val >= 0x20 && here.val < 0x7f ?
    //  "inflate: literal '%c'\n"
    //  "inflate: literal 0x%02x\n", here.val));
    state.mode = LIT;
    break;
}
if (here_op & 32) {
    //Tracevv((stderr, "inflate: end of block\n"));
    state.back = -1;
    state.mode = TYPE;
    break;
}
if (here_op & 64) {
    strm.msg = 'invalid literal/length code';
    state.mode = BAD;
    break;
}
state.extra = here_op & 15;
state.mode = LENEXT;
/* falls through */
case LENEXT:
if (state.extra) {
    //= NEEDBITS(state.extra);
    n = state.extra;
    while (bits < n) {
        if (have === 0) { break inf_leave; }
        have--;
        hold += input[next++] << bits;
        bits += 8;
    }
    //===/
    state.length += hold & ((1 << state.extra) - 1)/BITS(state.extra)/;
    //=-- DROPBITS(state.extra) ---//
    hold >>= state.extra;
    bits -= state.extra;
    //=--/
    state.back += state.extra;
} }
//Tracevv((stderr, "inflate: length %u\n", state.length));
state.was = state.length;
state.mode = DIST;
/* falls through */

    case DIST:
    for (;;) {
        here = state.distcode[hold & ((1 << state.distbits) - 1)];/BITS(state.distbits)/
        here_bits = here >>> 24;
        here_op = (here >>> 16) & 0xff;
        here_val = here & 0xffff;

        if ((here_bits) <= bits) { break; }
        //=-- PULLBYTE() ---//
        if (have === 0) { break inf_leave; }
        have--;
        hold += input[next++] << bits;
        bits += 8;
        //=--//
    }
    if ((here_op & 0xf0) === 0) {
        last_bits = here_bits;
        last_op = here_op;
        last_val = here_val;
        for (;;) {
            here = state.distcode[last_val +
                ((hold & ((1 << (last_bits + last_op)) - 1))/BITS(last_bits + last_op)/) >> last_bits];
            here_bits = here >>> 24;
            here_op = (here >>> 16) & 0xff;
            here_val = here & 0xffff;

            if ((last_bits + here_bits) <= bits) { break; }

            last_bits = here_bits;
            last_op = here_op;
            last_val = here_val;
        } }
if (have === 0) { break inf_leave; }
    have--;
    hold += input[next++] << bits;
    bits += 8;
//---/}
//--- DROPBITS(last.bits) ---//
hold >>= last_bits;
    bits -= last_bits;
//---/
state.back += last_bits;
}
//--- DROPBITS(here.bits) ---//
hold >>= here_bits;
    bits -= here_bits;
//---/
state.back += here_bits;
if (here_op & 64) {
    strm.msg = 'invalid distance code';
    state.mode = BAD;
    break;
}
state.offset = here_val;
state.extra = (here_op) & 15;
state.mode = DISTEXT;
/* falls through */
case DISTEXT:
    if (state.extra) {
       //=== NEEDBITS(state.extra);
        n = state.extra;
        while (bits < n) {
            if (have === 0) { break inf_leave; }
                have--;
                hold += input[next++] << bits;
                bits += 8;
        }
       //===
        state.offset += hold & ((1 << state.extra) - 1)/*BITS(state.extra)>>*/;
        //--- DROPBITS(state.extra) ---//
        hold >>= state.extra;
        bits -= state.extra;
        //---/
        state.back += state.extra;
    }
#ifndef INFLATE_STRICT
    if (state.offset > state.dmax) {
        strm.msg = 'invalid distance too far back';
    }
state.mode = BAD;
break;
}
//#endif
//Tracev((stderr, "inflate:          distance %u\n", state.offset));
state.mode = MATCH;
/* falls through */
case MATCH:
    if (left === 0) { break inf_leave; }
    copy = _out - left;
    if (state.offset > copy) { /* copy from window */
        copy = state.offset - copy;
        if (copy > state.whave) {
            if (state.sane) {
                strm.msg = 'invalid distance too far back';
                state.mode = BAD;
                break;
            }
            // (!) This block is disabled in zlib defaults,
            // don't enable it for binary compatibility
            //#ifdef INFLATE_ALLOW_INVALID_DISTANCE_TOO_FAR_ARRR
            //          Trace((stderr, "inflate.c too far\n"));
            //          copy -= state.whave;
            //          if (copy > state.length) { copy = state.length; }
            //          if (copy > left) { copy = left; }
            //          left -= copy;
            //          state.length -= copy;
            //          do {
            //            output[put++] = 0;
            //          } while (--copy);
            //          if (state.length === 0) { state.mode = LEN; }
            //          break;
            //#endif
        }
        if (copy > state.wnext) {
            copy -= state.wnext;
            from = state.wsize - copy;
        } else {
            from = state.wnext - copy;
        }
        if (copy > state.length) { copy = state.length; }
        from_source = state.window;
    }
    else { /* copy from output */
        from_source = output;
        from = put - state.offset;
        copy = state.length;
    }
if (copy > left) { copy = left; }
left -= copy;
state.length -= copy;
do {
    output[put++] = from_source[from++];
} while (--copy);
if (state.length === 0) { state.mode = LEN; } break;
case LIT:
    if (left === 0) { break inf_leave; }
    output[put++] = state.length;
    left--;
    state.mode = LEN;
    break;
case CHECK:
    if (state.wrap) {
        //== NEEDBITS(32);
        while (bits < 32) {
            if (have === 0) { break inf_leave; }
            have--;
            // Use '|' insdead of '+' to make sure that result is signed
            hold |= input[next++] << bits;
            bits += 8;
        }
        //_out -= left;
        strm.total_out += _out;
        state.total += _out;
        if (_out) {
            strm.adler = state.check =
                /*UPDATE(state.check, put - _out, _out);*/
                (state.flags ? crc32(state.check, output, _out, put - _out) : adler32(state.check, output, _out, put - _out));
        }
        _out = left;
        // NB: crc32 stored as signed 32-bit int, zswap32 returns signed too
        if ((state.flags ? hold : zswap32(hold)) !== state.check) {
            strm.msg = 'incorrect data check';
            state.mode = BAD;
            break;
        }
    } /*INITBITS();
    hold = 0;
    bits = 0;*/
    //Tracev((stderr, "inflate: check matches trailer\n"));
state.mode = LENGTH;
/* falls through */
case LENGTH:
    if (state.wrap && state.flags) {
        //== NEEDBITS(32);
        while (bits < 32) {
            if (have === 0) { break inf_leave; }
            have--;
            hold += input[next++] << bits;
            bits += 8;
        }
        //==/
        if (hold !== (state.total & 0xffffffff)) {
            strm.msg = 'incorrect length check';
            state.mode = BAD;
            break;
        }
        //== INITBITS();
        hold = 0;
        bits = 0;
        //==/
        //Tracev((stderr, "inflate:   length matches trailer\n"));
    }
    state.mode = DONE;
    /* falls through */
case DONE:
    ret = Z_STREAM_END;
    break inf_leave;
case BAD:
    ret = Z_DATA_ERROR;
    break inf_leave;
case MEM:
    return Z_MEM_ERROR;
case SYNC:
    /* falls through */
default:
    return Z_STREAM_ERROR;
}

// inf_leave <- here is real place for "goto inf_leave", emulated via "break inf_leave"

/*
Return from inflate(), updating the total counts and the check value.
If there was no progress during the inflate() call, return a buffer error. Call
updatewindow() to create and/or update the window state.
Note: a memory error from inflate() is non-recoverable.
*/
//--- RESTORE() ---
strm.next_out = put;
strm.avail_out = left;
strm.next_in = next;
strm.avail_in = have;
state.hold = hold;
state.bits = bits;
//---

if (state.wsize || (_out !== strm.avail_out && state.mode < BAD &&
   (state.mode < CHECK || flush !== Z_FINISH))) {
   if (updatewindow(strm, strm.output, strm.next_out, _out - strm.avail_out)) {
      state.mode = MEM;
      return Z_MEM_ERROR;
   }
}

_in -= strm.avail_in;
_out -= strm.avail_out;
state.total_in += _in;
state.total_out += _out;
if (state.wrap && _out) {
   strm.adler = state.check = /*UPDATE(state.check, strm.next_out - _out, _out);*/
   (state.flags ? crc32(state.check, output, _out, strm.next_out - _out) : adler32(state.check, output, _out,
   strm.next_out - _out));
}
strm.data_type = state.bits + (state.last ? 64 : 0) +
   (state.mode === TYPE ? 128 : 0) +
   (state.mode === LEN_ || state.mode === COPY_ ? 256 : 0);
if (((_in === 0 && _out === 0) || flush === Z_FINISH) && ret === Z_OK) {
   ret = Z_BUF_ERROR;
}
return ret;
}

function inflateEnd(strm) {
if (!strm || !strm.state /*|| strm->zfree == (free_func)0*/) {
   return Z_STREAM_ERROR;
}
var state = strm.state;
if (state.window) {
   state.window = null;
}
strm.state = null;
return Z_OK;
function inflateGetHeader(strm, head) {
    var state;

    /* check state */
    if (!(strm || strm.state) { return Z_STREAM_ERROR; }
    state = strm.state;
    if (((state.wrap & 2) !== 0) { return Z_STREAM_ERROR; }

    /* save header structure */
    state.head = head;
    head.done = false;
    return Z_OK;
}

function inflateSetDictionary(strm, dictionary) {
    var dictLength = dictionary.length;

    var state;
    var dictid;
    var ret;

    /* check state */
    if (!(strm /* == Z_NULL */ || !strm.state /* == Z_NULL */) { return Z_STREAM_ERROR; }
    state = strm.state;

    if (state.wrap !== 0 && state.mode !== DICT) {
        return Z_STREAM_ERROR;
    }

    /* check for correct dictionary identifier */
    if (state.mode === DICT) {
        dictid = 1; /* adler32(0, null, 0)*/
        /* dictid = adler32(dictid, dictionary, dictLength); */
        dictid = adler32(dictid, dictionary, dictLength, 0);
        if (dictid !== state.check) {
            return Z_DATA_ERROR;
        }
    }

    /* copy dictionary to window using updatewindow(), which will amend the
     existing dictionary if appropriate */
    ret = updatewindow(strm, dictionary, dictLength, dictLength);
    if (ret) {
        state.mode = MEM;
        return Z_MEM_ERROR;
    }
    state.havedict = 1;
// Tracev((stderr, "inflate: dictionary set\n"));
return Z_OK;
}

exports.inflateReset = inflateReset;
extports.inflateReset2 = inflateReset2;
extports.inflateResetKeep = inflateResetKeep;
extports.inflateInit = inflateInit;
extports.inflateInit2 = inflateInit2;
extports.inflate = inflate;
extports.inflateEnd = inflateEnd;
extports.inflateGetHeader = inflateGetHeader;
extports.inflateSetDictionary = inflateSetDictionary;
extports.inflateInfo = 'pako inflate (from Nodeca project)';

/* Not implemented
exports.inflateCopy = inflateCopy;
extports.inflateGetDictionary = inflateGetDictionary;
extports.inflateMark = inflateMark;
extports.inflatePrime = inflatePrime;
extports.inflateSync = inflateSync;
extports.inflateSyncPoint = inflateSyncPoint;
extports.inflateUndermine = inflateUndermine;
*/

},{"../utils/common":41,"/adler32":43,"/crc32":45,"/inffast":48,"/inftrees":50}],50:[function(require,module,exports){


'use strict';

//@ sourceMappingURL=adler32.js.map

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// misrepresented as being the original software.
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var utils = require('./util/common');

var MAXBITS = 15;
var ENOUGH_LENS = 852;
var ENOUGH_DIST = 592;
//var ENOUGH = (ENOUGH_LENS+ENOUGH_DIST);

var CODES = 0;
var LENS = 1;
var DISTS = 2;

var lbase = [ /* Length codes 257..285 base */
  3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 15, 17, 19, 23, 27, 31,
  35, 43, 51, 59, 67, 83, 99, 115, 131, 163, 195, 227, 258, 0, 0
 ];

var lext = [ /* Length codes 257..285 extra */
  16, 16, 16, 16, 16, 16, 16, 17, 17, 17, 17, 18, 18, 18, 18, 19,
  19, 19, 19, 20, 20, 20, 20, 21, 21, 21, 21, 16, 72, 78
 ];

var dbase = [ /* Distance codes 0..29 base */
  1, 2, 3, 4, 5, 7, 9, 13, 17, 25, 33, 49, 65, 97, 129, 193,
  257, 385, 513, 769, 1025, 1537, 2049, 3073, 4097, 6145,
  8193, 12289, 16385, 24577, 0, 0
 ];

var dext = [ /* Distance codes 0..29 extra */
  16, 16, 16, 16, 17, 17, 18, 18, 19, 19, 20, 20, 20, 20, 21, 21,
  21, 22, 22, 23, 23, 24, 24, 25, 25, 26, 26, 27, 27,
  28, 28, 29, 29, 64, 64
 ];

module.exports = function inflate_table(type, lens, lens_index, codes, table, table_index, work, opts)
{
  var bits = opts.bits;

  //here = opts.here; /* table entry for duplication */

  var len = 0; /* a code's length in bits */
  var sym = 0; /* index of code symbols */
  var min = 0, max = 0; /* minimum and maximum code lengths */
  var root = 0; /* number of index bits for root table */
  var curr = 0; /* number of index bits for current table */
  var drop = 0; /* code bits to drop for sub-table */
  var left = 0; /* number of prefix codes available */
  var used = 0; /* code entries in table used */
  var huff = 0; /* Huffman code */
  var incr; /* for incrementing code, index */
var fill;              /* index for replicating entries */
var low;               /* low bits for current root entry */
var mask;              /* mask for low root bits */
var next;             /* next available space in table */
var base = null;     /* base value table to use */
var base_index = 0;
//  var shoextra;    /* extra bits table to use */
var end;                    /* use base and extra for symbol > end */
var count = new utils.Buf16(MAXBITS + 1); // [MAXBITS+1];    /* number of codes of each length */
var offs = new utils.Buf16(MAXBITS + 1); // [MAXBITS+1];     /* offsets in table for each length */
var extra = null;
var extra_index = 0;

var here_bits, here_op, here_val;

/*
Process a set of code lengths to create a canonical Huffman code. The
code lengths are lens[0..codes-1]. Each length corresponds to the
symbols 0..codes-1. The Huffman code is generated by first sorting the
symbols by length from short to long, and retaining the symbol order
for codes with equal lengths. Then the code starts with all zero bits
for the first code of the shortest length, and the codes are integer
increments for the same length, and zeros are appended as the length
increases. For the deflate format, these bits are stored backwards
from their more natural integer increment ordering, and so when the
decoding tables are built in the large loop below, the integer codes
are incremented backwards.

This routine assumes, but does not check, that all of the entries in
lens[] are in the range 0..MAXBITS. The caller must assure this.
1..MAXBITS is interpreted as that code length. zero means that that
symbol does not occur in this code.

The codes are sorted by computing a count of codes for each length,
creating from that a table of starting indices for each length in the
sorted table, and then entering the symbols in order in the sorted
table. The sorted table is work[], with that space being provided by
the caller.

The length counts are used for other purposes as well, i.e. finding
the minimum and maximum length codes, determining if there are any
codes at all, checking for a valid set of lengths, and looking ahead
at length counts to determine sub-table sizes when building the
decoding tables.
*/

/* accumulate lengths for codes (assumes lens[] all in 0..MAXBITS) */
for (len = 0; len <= MAXBITS; len++) {

count[len] = 0;
}
for (sym = 0; sym < codes; sym++) {
    count[lens[lens_index + sym]]++;
}

/* bound code lengths, force root to be within code lengths */
root = bits;
for (max = MAXBITS; max >= 1; max--) {
    if (count[max] !== 0) { break; }
}
if (root > max) {
    root = max;
}
if (max === 0) {
    /* no symbols to code at all */
    //table.op[opts.table_index] = 64; //here.op = (var char)64; /* invalid code marker */
    //table.bits[opts.table_index] = 1; //here.bits = (var char)1;
    //table.val[opts.table_index++] = 0; //here.val = (var short)0;
    table[table_index++] = (1 << 24) | (64 << 16) | 0;
}

//table.op[opts.table_index] = 64;
//table.bits[opts.table_index] = 1;
//table.val[opts.table_index++] = 0;
//table[2 * table_index++] = (1 << 24) | (64 << 16) | 0;

opts.bits = 1;
return 0; /* no symbols, but wait for decoding to report error */
}
for (min = 1; min < max; min++) {
    if (count[min] !== 0) { break; }
}
if (root < min) {
    root = min;
}

/* check for an over-subscribed or incomplete set of lengths */
left = 1;
for (len = 1; len <= MAXBITS; len++) {
    left <<= 1;
    left -= count[len];
    if (left < 0) {
        return -1;
    } /* over-subscribed */
}
if (left > 0 && (type === CODES || max !== 1)) {
    return -1; /* incomplete set */
}
/* generate offsets into symbol table for each length for sorting */
offs[1] = 0;
for (len = 1; len < MAXBITS; len++) {
    offs[len + 1] = offs[len] + count[len];
}

/* sort symbols by length, by symbol order within each length */
for (sym = 0; sym < codes; sym++) {
    if (lens[lens_index + sym] !== 0) {
        work[offs[lens[lens_index + sym]]++] = sym;
    }
}

/* Create and fill in decoding tables. In this loop, the table being 
   filled is at next and has curr index bits. The code being used is huff 
   with length len. That code is converted to an index by dropping drop 
   bits off of the bottom. For codes where len is less than drop + curr, 
   those top drop + curr - len bits are incremented through all values to 
   fill the table with replicated entries. 

   root is the number of index bits for the root table. When len exceeds 
   root, sub-tables are created pointed to by the root entry with an index 
   of the low root bits of huff. This is saved in low to check for when a 
   new sub-table should be started. drop is zero when the root table is 
   being filled, and drop is root when sub-tables are being filled. 

   When a new sub-table is needed, it is necessary to look ahead in the 
   code lengths to determine what size sub-table is needed. The length 
   counts are used for this, and so count[] is decremented as codes are 
   entered in the tables. 

   used keeps track of how many table entries have been allocated from the 
   provided *table space. It is checked for LENS and DIST tables against 
   the constants ENOUGH_LENS and ENOUGH_DISTS to guard against changes in 
   the initial root table size constants. See the comments in inftrees.h 
   for more information. 

   sym increments through all symbols, and the loop terminates when 
   all codes of length max, i.e. all codes, have been processed. This 
   routine permits incomplete codes, so another loop after this one fills 
   in the rest of the decoding tables with invalid code markers. */

/* set up for code type */
// poor man optimization - use if-else instead of switch, 
// to avoid deopts in old v8
if (type === CODES) {
    base = extra = work;  /* dummy value--not used */
    end = 19;
}
else if (type === LENS) {
    base = lbase;
    base_index -= 257;
    extra = lext;
    extra_index -= 257;
    end = 256;
}
else {  /* DISTS */
    base = dbase;
    extra = dext;
    end = -1;
}

/* initialize opts for loop */
huff = 0;  /* starting code */
sym = 0;  /* starting code symbol */
len = min;  /* starting code length */
next = table_index;  /* current table to fill in */
curr = root;  /* current table index bits */
drop = 0;  /* current bits to drop from code for index */
low = -1;  /* trigger new sub-table when len > root */
used = 1 << root;  /* use root table entries */
mask = used - 1;  /* mask for comparing low */

/* check available table space */
if ((type === LENS && used > ENOUGH_LENS) ||
    (type === DISTS && used > ENOUGH_DIST)) {
    return 1;
}

/* process all codes and make table entries */
for (;;) {
    /* create table entry */
    here_bits = len - drop;
    if (work[sym] < end) {
        here_op = 0;
        here_val = work[sym];
    }
    else if (work[sym] > end) {
        here_op = extra[extra_index + work[sym]];
        here_val = base[base_index + work[sym]];
    }
    else {
        here_op = 32 + 64;  /* end of block */
    }
here_val = 0;
}

/* replicate for those indices with low len bits equal to huff */
incr = 1 << (len - drop);
fill = 1 << curr;
min = fill; /* save offset to next table */
do {
    fill -= incr;
    table[next + (huff >> drop) + fill] = (here_bits << 24) | (here_op << 16) | here_val |0;
} while (fill !== 0);

/* backwards increment the len-bit code huff */
incr = 1 << (len - 1);
while (huff & incr) {
    incr >>= 1;
}
if (incr !== 0) {
    huff &= incr - 1;
    huff += incr;
} else {
    huff = 0;
}

/* go to next symbol, update count, len */
sym++;
if (~count[len] === 0) {
    if (len === max) { break; }
    len = lens[lens_index + work[sym]];
}

/* create new sub-table if needed */
if (len > root && (huff & mask) !== low) {
    /* if first time, transition to sub-tables */
    if (drop === 0) {
        drop = root;
    }

    /* increment past last table */
    next += min; /* here min is 1 << curr */

    /* determine length of next table */
curr = len - drop;
left = 1 << curr;
while (curr + drop < max) {
    left -= count[curr + drop];
    if (left <= 0) { break; }
    curr++;
}
left <<= 1;

/* check for enough space */
used += 1 << curr;
if ((type === LENS && used > ENOUGH_LENS) ||
    (type === DISTS && used > ENOUGH_DISTS)) {
  return 1;
}

/* point entry in root table to sub-table */
low = huff & mask;
/*table.op[low] = curr;
table.bits[low] = root;
table.val[low] = next - opts.table_index;*/
/*table[low] = (root << 24) | (curr << 16) | (next - table_index) |0;
*/
}

/* fill in remaining table entry if code is incomplete (guaranteed to have
at most one remaining entry, since if the code is incomplete, the
maximum code length that was allowed to get this far is one bit) */
if (huff !== 0) {
  //table.op[next + huff] = 64;            /* invalid code marker */
  //table.bits[next + huff] = len - drop;
  //table.val[next + huff] = 0;
  table[next + huff] = ((len - drop) << 24) | (64 << 16) |0;
}

/* set return parameters */
//opts.table_index += used;
opts.bits = root;
return 0;
};


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//
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// arising from the use of this software.
//
// Permission is granted to anyone to use this software for any purpose,
// including commercial applications, and to alter it and redistribute it
// freely, subject to the following restrictions:
module.exports = {
  2: 'need dictionary', /* Z_NEED_DICT 2 */
  1: 'stream end',     /* Z_STREAM_END 1 */
  0: '',               /* Z_OK 0 */
  '-1': 'file error',   /* Z_ERRNO (-1) */
  '-2': 'stream error', /* Z_STREAM_ERROR (-2) */
  '-3': 'data error',   /* Z_DATA_ERROR (-3) */
  '-4': 'insufficient memory', /* Z_MEM_ERROR (-4) */
  '-5': 'buffer error', /* Z_BUF_ERROR (-5) */
  '-6': 'incompatible version' /* Z_VERSION_ERROR (-6) */
};

var utils = require('./utils/common');

/* Public constants ==========================================================*/
/* ===========================================================================*/

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// misrepresented as being the original software.
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//var Z_FILTERED   = 1;
//var Z_HUFFMAN_ONLY = 2;
//var Z_RLE        = 3;
var Z_FIXED       = 4;
//var Z_DEFAULT_STRATEGY = 0;

/* Possible values of the data_type field (though see inflate()) */
var Z_BINARY      = 0;
var Z_TEXT        = 1;
//var Z_ASCII      = 1; // = Z_TEXT
var Z_UNKNOWN     = 2;

/*============================================================================*/

function zero(buf) { var len = buf.length; while (--len >= 0) { buf[len] = 0; } }

// From zutil.h
var STORED_BLOCK = 0;
var STATIC_TREES = 1;
var DYN_TREES    = 2;
/* The three kinds of block type */
var MIN_MATCH    = 3;
var MAX_MATCH    = 258;
/* The minimum and maximum match lengths */

// From deflate.h
/*============================================================================*/

/* Internal compression state. */

var LENGTH_CODES = 29;
/* number of length codes, not counting the special END_BLOCK code */
var LITERALS     = 256;
/* number of literal bytes 0..255 */
var L_CODES      = LITERALS + 1 + LENGTH_CODES;
/* number of Literal or Length codes, including the END_BLOCK code */
var D_CODES      = 30;
/* number of distance codes */
var BL_CODES     = 19;
/* number of codes used to transfer the bit lengths */
```javascript
var HEAP_SIZE = 2 * L_CODES + 1;
/* maximum heap size */

var MAX_BITS = 15;
/* All codes must not exceed MAX_BITS bits */

var Buf_size = 16;
/* size of bit buffer in bi_buf */

/* ==============================================================
 * Constants
 */

var MAX_BL_BITS = 7;
/* Bit length codes must not exceed MAX_BL_BITS bits */

var END_BLOCK = 256;
/* end of block literal code */

var REP_3_6 = 16;
/* repeat previous bit length 3-6 times (2 bits of repeat count) */

var REPZ_3_10 = 17;
/* repeat a zero length 3-10 times (3 bits of repeat count) */

var REPZ_11_138 = 18;
/* repeat a zero length 11-138 times (7 bits of repeat count) */

/* eslint-disable comma-spacing,array-bracket-spacing */

var extra_lbits = /* extra bits for each length code */
[0,0,0,0,0,0,0,0,1,1,1,1,2,2,2,2,3,3,3,3,4,4,4,4,5,5,5,5,0];

var extra_dbits = /* extra bits for each distance code */
[0,0,0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13];

var extra_blbits = /* extra bits for each bit length code */
[0,0,0,0,0,0,0,0,0,0,0,0,0,0,2,3,7];

var bl_order =
[16,17,18,0,8,7,9,6,10,5,11,4,12,3,13,2,14,1,15];
/* eslint-enable comma-spacing,array-bracket-spacing */

/* The lengths of the bit length codes are sent in order of decreasing */
/* probability, to avoid transmitting the lengths for unused bit length codes. */
```

// Local data. These are initialized only once.

// We pre-fill arrays with 0 to avoid uninitialized gaps

var DIST_CODE_LEN = 512; /* see definition of array dist_code below */

// !!!! Use flat array instead of structure, Freq = i*2, Len = i*2+1
var static_ltree = new Array((L_CODES + 2) * 2);
zero(static_ltree);
/* The static literal tree. Since the bit lengths are imposed, there is no
* need for the L_CODES extra codes used during heap construction. However
* The codes 286 and 287 are needed to build a canonical tree (see _tr_init
* below).
*/

var static_dtree = new Array(D_CODES * 2);
zero(static_dtree);
/* The static distance tree. (Actually a trivial tree since all codes use
* 5 bits.)
*/

var _dist_code = new Array(DIST_CODE_LEN);
zero(_dist_code);
/* Distance codes. The first 256 values correspond to the distances
* 3 .. 258, the last 256 values correspond to the top 8 bits of
* the 15 bit distances.
*/

var _length_code = new Array(MAX_MATCH - MIN_MATCH + 1);
zero(_length_code);
/* length code for each normalized match length (0 == MIN_MATCH) */

var base_length = new Array(LENGTH_CODES);
zero(base_length);
/* First normalized length for each code (0 = MIN_MATCH) */

var base_dist = new Array(D_CODES);
zero(base_dist);
/* First normalized distance for each code (0 = distance of 1) */

function StaticTreeDesc(static_tree, extra_bits, extra_base, elems, max_length) {
this.static_tree = static_tree; /* static tree or NULL */
this.extra_bits = extra_bits; /* extra bits for each code or NULL */
this.extra_base = extra_base; /* base index for extra_bits */
```javascript
this elems = elems; /* max number of elements in the tree */
this max_length = max_length; /* max bit length for the codes */

// show if `static_tree` has data or dummy - needed for monomorphic objects
this has stree = static_tree && static_tree.length;
}

var static l desc;
var static d desc;
var static bl desc;

function TreeDesc(dyn tree, stat desc) {
  this dyn tree = dyn_tree; /* the dynamic tree */
  this max code = 0; /* largest code with non zero frequency */
  this stat desc = stat_desc; /* the corresponding static tree */
}

function d code(dist) {
  return dist < 256 ? _dist code[dist] : _dist code[256 + (dist >>> 7)];
}

/* ===========================================================================
* Output a short LSB first on the stream.
* IN assertion: there is enough room in pendingBuf.
*/
function put short(s, w) {
  //    put_byte(s, (uch)((w) & 0xff));
  //    put_byte(s, (uch)((ush)(w) >> 8));
  s.pending_buf[s.pending++] = (w) & 0xff;
  s.pending_buf[s.pending++] = (w >>> 8) & 0xff;
}

/* ===========================================================================
* Send a value on a given number of bits.
* IN assertion: length <= 16 and value fits in length bits.
*/
function send bits(s, value, length) {
  if (s.bi_valid > (Buf_size - length)) {
    s.bi_buf |= (value << s.bi_valid) & 0xffff;
    put_short(s, s.bi_buf);
    s.bi_valid += length - Buf_size;
  }
}
```
} else {
    s.bi_buf |= (value << s.bi_valid) & 0xffff;
    s.bi_valid += length;
}
}

function send_code(s, c, tree) {
    send_bits(s, tree[c * 2]/.Code*/, tree[c * 2 + 1]/.Len*/);
}

/* ===========================================================================
 * Reverse the first len bits of a code, using straightforward code (a faster
 * method would use a table)
 * IN assertion: 1 <= len <= 15
 */
function bi_reverse(code, len) {
    var res = 0;
    do {
        res |= code & 1;
        code >>>= 1;
        res <<= 1;
    } while (--len > 0);
    return res >>> 1;
}

/* ===========================================================================
 * Flush the bit buffer, keeping at most 7 bits in it.
 */
function bi_flush(s) {
    if (s.bi_valid === 16) {
        put_short(s, s.bi_buf);
        s.bi_buf = 0;
        s.bi_valid = 0;
    } else if (s.bi_valid >= 8) {
        s.pending_buf[s.pending++] = s.bi_buf & 0xff;
        s.bi_buf >>= 8;
        s.bi_valid -= 8;
    }
}

/* ===========================================================================
 * Compute the optimal bit lengths for a tree and update the total bit length
 * for the current block.
 */
function gen_bitlen(s, desc)
//    deflate_state *s;
//    tree_desc *desc; /* the tree descriptor */
{
var tree            = desc.dyn_tree;
var max_code        = desc.max_code;
var stree           = desc.stat_desc.static_tree;
var has_stree       = desc.stat_desc.has_stree;
var extra           = desc.stat_desc.extra_bits;
var base            = desc.stat_desc.extra_base;
var max_length      = desc.stat_desc.max_length;
var h;              /* heap index */
var n, m;           /* iterate over the tree elements */
var bits;           /* bit length */
var xbits;          /* extra bits */
var f;              /* frequency */
var overflow = 0;   /* number of elements with bit length too large */
for (bits = 0; bits <= MAX_BITS; bits++) {
    s.bl_count[bits] = 0;
}
/* In a first pass, compute the optimal bit lengths (which may
* overflow in the case of the bit length tree).
*/
for (h = s.heap[s.heap_max] * 2 + 1); /* root of the heap */

for (h = s.heap_max + 1; h < HEAP_SIZE; h++) {
    n = s.heap[h];
    bits = tree[tree[n * 2 + 1].Dad]/2 + 1]/.Len*/ + 1;
    if (bits > max_length) {
        bits = max_length;
        overflow++;
    }
    tree[n * 2 + 1]/.Len*/ = bits;
    /* We overwrite tree[n].Dad which is no longer needed */
    if (n > max_code) { continue; } /* not a leaf node */
    s.bl_count[bits]++;
    xbits = 0;
if (n >= base) {
    xbits = extra[n - base];
}

f = tree[n * 2]/*.Freq*/;

s.opt_len += f * (bits + xbits);
if (has_stree) {
    s.static_len += f * (stree[n * 2 + 1]/*.Len*/ + xbits);
}

}

if (overflow === 0) { return; }

// Trace(stderr,"bit length overflow\n");
/* This happens for example on obj2 and pic of the Calgary corpus */

/* Find the first bit length which could increase: */
do {
    bits = max_length - 1;
    while (s.bl_count[bits] === 0) { bits--; }
    s.bl_count[bits]--; /* move one leaf down the tree */
    s.bl_count[bits + 1] += 2; /* move one overflow item as its brother */
    s.bl_count[max_length]--;
    /* The brother of the overflow item also moves one step up,
    * but this does not affect bl_count[max_length]
    */
    overflow -= 2;
} while (overflow > 0);

/* Now recompute all bit lengths, scanning in increasing frequency.
* h is still equal to HEAP_SIZE. (It is simpler to reconstruct all
* lengths instead of fixing only the wrong ones. This idea is taken
* from 'ar' written by Haruhiko Okumura.)
*/

for (bits = max_length; bits !== 0; bits--) {
    n = s.bl_count[bits];
    while (n !== 0) {
        m = s.heap[--h];
        if (m > max_code) { continue; }
        if (tree[m * 2 + 1]/*.Len*/ !== bits) {
            // Trace(stderr,"code %d bits %d->%d\n", m, tree[m].Len, bits);
            s.opt_len += (bits - tree[m * 2 + 1]/*.Len*/ + tree[m * 2]/*.Freq*/);
            tree[m * 2 + 1]/*.Len*/ = bits;
        }
        n--;
    }
    }
}
/* ===========================================================================
 * Generate the codes for a given tree and bit counts (which need not be
 * optimal).
 * IN assertion: the array bl_count contains the bit length statistics for
 * the given tree and the field len is set for all tree elements.
 * OUT assertion: the field code is set for all tree elements of non
 * zero code length.
 */

function gen_codes(tree, max_code, bl_count)
{
var next_code = new Array(MAX_BITS + 1); /* next code value for each bit length */
var code = 0;              /* running code value */
var bits;                  /* bit index */
var n;                     /* code index */

/* The distribution counts are first used to generate the code values
 * without bit reversal.
 */
for (bits = 1; bits <= MAX_BITS; bits++) {
    next_code[bits] = code = (code + bl_count[bits - 1]) << 1;
}
/* Check that the bit counts in bl_count are consistent. The last code
 * must be all ones.
 */
//Assert (code + bl_count[MAX_BITS]-1 == (1<<MAX_BITS)-1,
//        "inconsistent bit counts");
//Tracev((stderr,"gen_codes: max_code %d ", max_code));

for (n = 0; n <= max_code; n++) {
    var len = tree[n * 2 + 1]/*.Len*/;
    if (len === 0) { continue; }
    /* Now reverse the bits */
    tree[n * 2]/*.Code*/ = bi_reverse(next_code[len]++, len);
    //Tracecv(tree != static_ltree, (stderr,"n %3d %c l %2d c %4x (%x) ",
    //     n, (isgraph(n) ? n : ' '), len, tree[n].Code, next_code[len]-1));
}
}

/* ===========================================================================
 * Initialize the various 'constant' tables.
 */

function tr_static_init() {
    var n;              /* iterates over tree elements */

/* ====================================================================
 */
var bits; /* bit counter */
var length; /* length value */
var code; /* code value */
var dist; /* distance index */
var bl_count = new Array(MAX_BITS + 1);
/* number of codes at each bit length for an optimal tree */

// do check in _tr_init()
//if (static_init_done) return;

/* For some embedded targets, global variables are not initialized: */
/*#ifdef NO_INIT_GLOBAL_POINTERS */
static_l_desc.static_tree = static_ltree;
static_l_desc.extra_bits = extra_lbits;
static_d_desc.static_tree = static_dtree;
static_d_desc.extra_bits = extra_dbits;
static_bl_desc.extra_bits = extra_blbits;
/*#endif*/

/* Initialize the mapping length (0..255) -> length code (0..28) */
length = 0;
for (code = 0; code < LENGTH_CODES - 1; code++) {
    base_length[code] = length;
    for (n = 0; n < (1 << extra_lbits[code]); n++) {
        _length_code[length++] = code;
    }
}
//Assert (length == 256, "tr_static_init: length != 256");
/* Note that the length 255 (match length 258) can be represented
* in two different ways: code 284 + 5 bits or code 285, so we
* overwrite length_code[255] to use the best encoding:
*/
_length_code[length - 1] = code;

/* Initialize the mapping dist (0..32K) -> dist code (0..29) */
dist = 0;
for (code = 0; code < 16; code++) {
    base_dist[code] = dist;
    for (n = 0; n < (1 << extra_dbits[code]); n++) {
        _dist_code[dist++] = code;
    }
}
//Assert (dist == 256, "tr_static_init: dist != 256");
/* Note that the dist 255 (match length 258) can be represented
* in two different ways: code 258 + 7 bits or code 255, so we
* overwrite dist_code[255] to use the best encoding:
*/
_dist_code[256 + dist++] = code;

dist >>= 7; /* from now on, all distances are divided by 128 */
for (; code < D_CODES; code++) {
    base_dist[code] = dist << 7;
    for (n = 0; n < (1 << (extra_dbits[code] - 7)); n++) {
        _dist_code[256 + dist++] = code;
    }
}
/* Construct the codes of the static literal tree */
for (bits = 0; bits <= MAX_BITS; bits++) {
    bl_count[bits] = 0;
}

n = 0;
while (n <= 143) {
    static_ltree[n * 2 + 1].Len = 8;
    n++;
    bl_count[8]++;
}
while (n <= 255) {
    static_ltree[n * 2 + 1].Len = 9;
    n++;
    bl_count[9]++;
}
while (n <= 279) {
    static_ltree[n * 2 + 1].Len = 7;
    n++;
    bl_count[7]++;
}
while (n <= 287) {
    static_ltree[n * 2 + 1].Len = 8;
    n++;
    bl_count[8]++;
}
/* Codes 286 and 287 do not exist, but we must include them in the
* tree construction to get a canonical Huffman tree (longest code
* all ones)
* /
gen_codes(static_ltree, L_CODES + 1, bl_count);

/* The static distance tree is trivial: */
for (n = 0; n < D_CODES; n++) {
    static_dtree[n * 2 + 1].Len = 5;
    static_dtree[n * 2].Code = bi_reverse(n, 5);
}

// Now data ready and we can init static trees
static_l_desc = new StaticTreeDesc(static_ltree, extra_lbits, LITERALS + 1, L_CODES, MAX_BITS);
static_d_desc = new StaticTreeDesc(static_dtree, extra_dbits, 0, D_CODES, MAX_BITS);
static_bl_desc = new StaticTreeDesc(new Array(0), extra_blbits, 0, BL_CODES, MAX_BL_BITS);

//static_init_done = true;
/* ===========================================================================
* Initialize a new block.
*/
function init_block(s) {
    var n; /* iterates over tree elements */

    /* Initialize the trees. */
    for (n = 0; n < L_CODES; n++) { s.dyn_ltree[n * 2].Freq = 0; }
    for (n = 0; n < D_CODES; n++) { s.dyn_dtree[n * 2].Freq = 0; }
    for (n = 0; n < BL_CODES; n++) { s.bl_tree[n * 2].Freq = 0; }

    s.dyn_ltree[END_BLOCK * 2].Freq = 1;
    s.opt_len = s.static_len = 0;
    s.last_lit = s.matches = 0;
}

/* ===========================================================================
* Flush the bit buffer and align the output on a byte boundary
*/
function bi_windup(s) {
    if (s.bi_valid > 8) {
        put_short(s, s.bi_buf);
    } else if (s.bi_valid > 0) {
        put_byte(s, (Byte)s->bi_buf);
        s.pending_buf[s.pending++] = s.bi_buf;
    }
    s.bi_buf = 0;
    s.bi_valid = 0;
}

/* ===========================================================================
* Copy a stored block, storing first the length and its
* one's complement if requested.
*/
function copy_block(s, buf, len, header)
    //DeflateState *s;
    //charf    *buf;    /* the input data */
    //unsigned len;     /* its length */
    //int      header;  /* true if block header must be written */
{
    bi_windup(s); /* align on byte boundary */

    if (header) {

put_short(s, len);
put_short(s, ~len);
}
// while (len--) {
//   put_byte(s, *buf++);
// }
utils.arraySet(s.pending_buf, s.window, buf, len, s.pending);
s.pending += len;

/*==================================================================
* Compares to subtrees, using the tree depth as tie breaker when
* the subtrees have equal frequency. This minimizes the worst case length.
*/
function smaller(tree, n, m, depth) {
  var _n2 = n * 2;
  var _m2 = m * 2;
  return (tree[_n2].Freq < tree[_m2].Freq ||
          (tree[_n2].Freq === tree[_m2].Freq && depth[n] <= depth[m]));
}

/*==================================================================
* Restore the heap property by moving down the tree starting at node k,
* exchanging a node with the smallest of its two sons if necessary, stopping
* when the heap property is re-established (each father smaller than its
* two sons).
*/
function pqdownheap(s, tree, k)
//   deflate_state *s;
//   ct_data *tree; /* the tree to restore */
//   int k;         /* node to move down */
{
  var v = s.heap[k];
  var j = k << 1; /* left son of k */
  while (j <= s.heap_len) {
    /* Set j to the smallest of the two sons: */
    if (j < s.heap_len &&
      smaller(tree, s.heap[j + 1], s.heap[j], s.depth)) {
      j++;
    }
    /* Exit if v is smaller than both sons */
    if (smaller(tree, v, s.heap[j], s.depth)) { break; }

    /* Exchange v with the smallest son */
    s.heap[k] = s.heap[j];
    k = j;
    /* And continue down the tree, setting j to the left son of k */
```c
j <<= 1;
}
s.heap[k] = v;
}

// inlined manually
// var SMALLEST = 1;

/* ===========================================================================
* Send the block data compressed using the given Huffman trees
*/

function compress_block(s, ltree, dtree)
  // deflate_state *s;
  // const ct_data *ltree; /* literal tree */
  // const ct_data *dtree; /* distance tree */
{
  var dist; /* distance of matched string */
  var lc;  /* match length or unmatched char (if dist == 0) */
  var lx = 0; /* running index in l_buf */
  var code; /* the code to send */
  var extra; /* number of extra bits to send */

  if (s.last_lit !== 0) {
    do {
      dist = (s.pending_buf[s.d_buf + lx * 2] << 8) | (s.pending_buf[s.d_buf + lx * 2 + 1]);
      lc = s.pending_buf[s.l_buf + lx];
      lx++;

      if (dist === 0) {
        send_code(s, lc, ltree); /* send a literal byte */
        //Tracecv(isgraph(lc), (stderr," '%c' ", lc));
      } else {
        /* Here, lc is the match length - MIN_MATCH */
        code = _length_code[lc];
        send_code(s, code + LITERALS + 1, ltree); /* send the length code */
        extra = extra_lbits[code];
        if (extra !== 0) {
          lc -= base_length[code];
          send_bits(s, lc, extra); /* send the extra length bits */
        }
      }
      dist--; /* dist is now the match distance - 1 */
      code = d_code(dist);
      //Assert (code < D_CODES, "bad d_code");

      send_code(s, code, dtree); /* send the distance code */
      extra = extra_dbits[code];
      if (extra !== 0) {
```
dist -= base_dist[code];
    send_bits(s, dist, extra); /* send the extra distance bits */
}
} /* literal or match pair */

/* Check that the overlay between pending_buf and d_buf+l_buf is ok: */
//Assert((uInt)(s->pending) < s->lit_bufsize + 2*lx,
//      "pendingBuf overflow");

} while (lx < s.last_lit);

send_code(s, END_BLOCK, ltree);
}

/* ===========================================================================
* Construct one Huffman tree and assigns the code bit strings and lengths.
* Update the total bit length for the current block.
* IN assertion: the field freq is set for all tree elements.
* OUT assertions: the fields len and code are set to the optimal bit length
*      and corresponding code. The length opt_len is updated; static_len is
* also updated if stree is not null. The field max_code is set.
*/
function build_tree(s, desc)
//    deflate_state *s;
//    tree_desc *desc; /* the tree descriptor */
{
    var tree     = desc.dyn_tree;
    var stree    = desc.stat_desc.static_tree;
    var has_stree = desc.stat_desc.has_stree;
    var elems    = desc.stat_desc.elems;
    var n, m;          /* iterate over heap elements */
    var max_code = -1; /* largest code with non zero frequency */
    var node;          /* new node being created */

    /* Construct the initial heap, with least frequent element in
* heap[SMALLEST]. The sons of heap[n] are heap[2*n] and heap[2*n+1].
* heap[0] is not used.
*/
    s.heap_len = 0;
    s.heap_max = HEAP_SIZE;

    for (n = 0; n < elems; n++) {
        if (tree[n * 2].Freq !== 0) {
            s.heap[++s.heap_len] = max_code = n;
            s.depth[n] = 0;
            /* new node being created */
        }
    }

    /* Construct the initial heap, with least frequent element in
* heap[SMALLEST]. The sons of heap[n] are heap[2*n] and heap[2*n+1].
* heap[0] is not used.
*/
    /* new node being created */
    s.heap_len = 0;
    s.heap_max = HEAP_SIZE;

    for (n = 0; n < elems; n++) {
        if (tree[n * 2].Freq !== 0) {
            s.heap[++s.heap_len] = max_code = n;
            s.depth[n] = 0;
            /* new node being created */
        }
    }

    /* Construct the initial heap, with least frequent element in
* heap[SMALLEST]. The sons of heap[n] are heap[2*n] and heap[2*n+1].
* heap[0] is not used.
*/
    /* new node being created */
    s.heap_len = 0;
    s.heap_max = HEAP_SIZE;

    for (n = 0; n < elems; n++) {
        if (tree[n * 2].Freq !== 0) {
            s.heap[++s.heap_len] = max_code = n;
            s.depth[n] = 0;
            /* new node being created */
        }
    }

    /* Construct the initial heap, with least frequent element in
* heap[SMALLEST]. The sons of heap[n] are heap[2*n] and heap[2*n+1].
* heap[0] is not used.
*/
    /* new node being created */
    s.heap_len = 0;
    s.heap_max = HEAP_SIZE;

    for (n = 0; n < elems; n++) {
        if (tree[n * 2].Freq !== 0) {
            s.heap[++s.heap_len] = max_code = n;
            s.depth[n] = 0;
            /* new node being created */
        }
    }

    /* Construct the initial heap, with least frequent element in
* heap[SMALLEST]. The sons of heap[n] are heap[2*n] and heap[2*n+1].
* heap[0] is not used.
*/
    /* new node being created */
    s.heap_len = 0;
    s.heap_max = HEAP_SIZE;

    for (n = 0; n < elems; n++) {
        if (tree[n * 2].Freq !== 0) {
            s.heap[++s.heap_len] = max_code = n;
            s.depth[n] = 0;
            /* new node being created */
        }
    }

    /* Construct the initial heap, with least frequent element in
* heap[SMALLEST]. The sons of heap[n] are heap[2*n] and heap[2*n+1].
* heap[0] is not used.
*/
    /* new node being created */
    s.heap_len = 0;
    s.heap_max = HEAP_SIZE;

    for (n = 0; n < elems; n++) {
        if (tree[n * 2].Freq !== 0) {
            s.heap[++s.heap_len] = max_code = n;
            s.depth[n] = 0;
            /* new node being created */
        }
    }

    /* Construct the initial heap, with least frequent element in
* heap[SMALLEST]. The sons of heap[n] are heap[2*n] and heap[2*n+1].
* heap[0] is not used.
*/
    /* new node being created */
    s.heap_len = 0;
    s.heap_max = HEAP_SIZE;

    for (n = 0; n < elems; n++) {
        if (tree[n * 2].Freq !== 0) {
            s.heap[++s.heap_len] = max_code = n;
            s.depth[n] = 0;
            /* new node being created */
        }
    }

    /* Construct the initial heap, with least frequent element in
* heap[SMALLEST]. The sons of heap[n] are heap[2*n] and heap[2*n+1].
* heap[0] is not used.
*/
    /* new node being created */
    s.heap_len = 0;
    s.heap_max = HEAP_SIZE;

    for (n = 0; n < elems; n++) {
        if (tree[n * 2].Freq !== 0) {
            s.heap[++s.heap_len] = max_code = n;
            s.depth[n] = 0;
            /* new node being created */
        }
    }

    /* Construct the initial heap, with least frequent element in
* heap[SMALLEST]. The sons of heap[n] are heap[2*n] and heap[2*n+1].
* heap[0] is not used.
*/
/* The pkzip format requires that at least one distance code exists, */
/* and that at least one bit should be sent even if there is only one */
/* possible code. So to avoid special checks later on we force at least */
/* two codes of non zero frequency. */

while (s.heap_len < 2) {
    node = s.heap[++s.heap_len] = (max_code < 2 ? ++max_code : 0);
    tree[node * 2]/*.Freq*/ = 1;
    s.depth[node] = 0;
    s.opt_len--;

    if (has_stree) {
        s.static_len -= stree[node * 2 + 1]/*.Len*/;
    }
    /* node is 0 or 1 so it does not have extra bits */
}

desc.max_code = max_code;

/* The elements heap[heap_len/2+1 .. heap_len] are leaves of the tree, */
/* establish sub-heaps of increasing lengths: */
/*
for (n = (s.heap_len >> 1/*int /2*/); n >= 1; n--) { pqdownheap(s, tree, n); }
*/

/* Construct the Huffman tree by repeatedly combining the least two */
/* frequent nodes. */

node = elems;    /* next internal node of the tree */
do {
    //pqremove(s, tree, n); /* n = node of least frequency */
    /* pqremove */
    n = s.heap[1/*SMALLEST*/];
    s.heap[1/*SMALLEST*/] = s.heap[s.heap_len--];
    pqdownheap(s, tree, 1/*SMALLEST*/);
    /***/
    m = s.heap[1/*SMALLEST*/]; /* m = node of next least frequency */
    s.heap[--s.heap_max] = n; /* keep the nodes sorted by frequency */
    s.heap[--s.heap_max] = m;
    /* Create a new node father of n and m */
    tree[node * 2]/*.Freq*/ = tree[n * 2]/*.Freq*/ + tree[m * 2]/*.Freq*/;
    s.depth[node] = (s.depth[n] >= s.depth[m] ? s.depth[n] : s.depth[m]) + 1;
/* and insert the new node in the heap */
s.heap[1/*SMALLEST*/] = node++;
pqdownheap(s, tree, 1/*SMALLEST*/);
}
while (s.heap_len >= 2);

s.heap[--s.heap_max] = s.heap[1/*SMALLEST*/];

/* At this point, the fields freq and dad are set. We can now
 * generate the bit lengths.
 */
gen_bitlen(s, desc);

/* The field len is now set, we can generate the bit codes */
gen_codes(tree, max_code, s.bl_count);

/* ===========================================================================
 * Scan a literal or distance tree to determine the frequencies of the codes
 * in the bit length tree.
 */
function scan_tree(s, tree, max_code)
//    deflate_state *s;
//    ct_data *tree;   /* the tree to be scanned */
//    int max_code;    /* and its largest code of non zero frequency */
{
var n;                     /* iterates over all tree elements */
var prevlen = -1;          /* last emitted length */
var curlen;                /* length of current code */
var nextlen = tree[(n + 1) * 2 + 1]/*.Len*/; /* length of next code */

var count = 0;             /* repeat count of the current code */
var max_count = 7;         /* max repeat count */
var min_count = 4;         /* min repeat count */

if (nextlen === 0) {
    max_count = 138;
    min_count = 3;
}

var len = tree[(max_code + 1) * 2 + 1]/*.Len*/ = 0xffff; /* guard */

for (n = 0; n <= max_code; n++) {
    curlen = nextlen;
    nextlen = tree[(n + 1) * 2 + 1]/*.Len*/;
if (++count < max_count && curlen == nextlen) {
    continue;
} else if (count < min_count) {
    s.bl_tree[curlen * 2]/*.Freq*/ += count;
} else if (curlen !== 0) {
    if (curlen !== prevlen) { s.bl_tree[curlen * 2]/*.Freq*/++; }
    s.bl_tree[REP_3_6 * 2]/*.Freq*/++;
} else if (count <= 10) {
    s.bl_tree[REPZ_3_10 * 2]/*.Freq*/++;
} else {
    s.bl_tree[REPZ_11_138 * 2]/*.Freq*/++;
}

count = 0;
prevlen = curlen;

if (nextlen === 0) {
    max_count = 138;
    min_count = 3;
} else if (curlen == nextlen) {
    max_count = 6;
    min_count = 3;
} else {
    max_count = 7;
    min_count = 4;
}

/* ================
 * Send a literal or distance tree in compressed form, using the codes in
 * bl_tree.
 */
function send_tree(s, tree, max_code)
    deflate_state *s;
    ct_data *tree; /* the tree to be scanned */
    int max_code; /* and its largest code of non zero frequency */
{
    var n; /* iterates over all tree elements */

var prevlen = -1;    /* last emitted length */
var curlen;         /* length of current code */

var nextlen = tree[0 * 2 + 1].Len;   /* length of next code */

var count = 0;      /* repeat count of the current code */
var max_count = 7;  /* max repeat count */
var min_count = 4;  /* min repeat count */

/* tree[length + 1].Len = -1; /* guard already set */
if (nextlen === 0) {
    max_count = 138;
    min_count = 3;
}

for (n = 0; n <= max_code; n++) {
    curlen = nextlen;
    nextlen = tree[(n + 1) * 2 + 1].Len;

    if (++count < max_count && curlen === nextlen) {
        continue;
    } else if (count < min_count) {
        do { send_code(s, curlen, s.bl_tree); } while (--count !== 0);
    } else if (curlen !== 0) {
        if (curlen !== prevlen) {
            send_code(s, curlen, s.bl_tree);
            count--;
        }
        //Assert(count >= 3 && count <= 6, " 3_6?");
        send_code(s, REP_3_6, s.bl_tree);
        send_bits(s, count - 3, 2);
    } else if (count <= 10) {
        send_code(s, REPZ_3_10, s.bl_tree);
        send_bits(s, count - 3, 3);
    } else {
        send_code(s, REPZ_11_138, s.bl_tree);
        send_bits(s, count - 11, 7);
    }
}

count = 0;
prevlen = curlen;
if (nextlen === 0) {
    max_count = 138;
    min_count = 3;
}
} else if (curlen === nextlen) {
    max_count = 6;
    min_count = 3;
}
}
else {
    max_count = 7;
    min_count = 4;
}
}
}

/*========================================================================*/
/* Construct the Huffman tree for the bit lengths and return the index in   */
/* bl_order of the last bit length code to send.*/
/**/
function build_bl_tree(s) {
    var max_blindex;  /* index of last bit length code of non zero freq */

    /* Determine the bit length frequencies for literal and distance trees */
    scan_tree(s, s.dyn_ltree, s.l_desc.max_code);
    scan_tree(s, s.dyn_dtree, s.d_desc.max_code);

    /* Build the bit length tree: */
    build_tree(s, s.bl_desc);
    /* opt_len now includes the length of the tree representations, except */
    /* the lengths of the bit lengths codes and the 5+5+4 bits for the counts.*/
    /**/

    /* Determine the number of bit length codes to send. The pkzip format */
    /* requires that at least 4 bit length codes be sent. (appnote.txt says */
    /* 3 but the actual value used is 4.) */
    /**/
    for (max_blindex = BL_CODES - 1; max_blindex >= 3; max_blindex--) {
        if (s.bl_tree[bl_order[max_blindex] * 2 + 1].Len !== 0) {
            break;
        }
    }
    /* Update opt_len to include the bit length tree and counts */
    s.opt_len += 3 * (max_blindex + 1) + 5 + 5 + 4;
    //Tracev((stderr, "indyn trees: dyn %ld, stat %ld",
    //        s->opt_len, s->static_len));

    return max_blindex;
}
function send_all_trees(s, lcodes, dcodes, blcodes)
   //  deflate_state *s;
   //  int lcodes, dcodes, blcodes; /* number of codes for each tree */
   {
      var rank;                   /* index in bl_order */

      //Assert (lcodes >= 257 && dcodes >= 1 && blcodes >= 4, "not enough codes");
      //Assert (lcodes <= L_CODES && dcodes <= D_CODES && blcodes <= BL_CODES,
      //   "too many codes");
      //Tracev((stderr, "bl counts:" ));
      send_bits(s, lcodes - 257, 5); /* not +255 as stated in appnote.txt */
      send_bits(s, dcodes - 1,   5);
      send_bits(s, blcodes - 4,  4); /* not -3 as stated in appnote.txt */
      for (rank = 0; rank < blcodes; rank++) {
         //Tracev((stderr, "bl code %2d ", bl_order[rank]));
         send_bits(s, s.bl_tree[bl_order[rank] * 2 + 1]/*.Len*/, 3);
      }
      //Tracev((stderr, "bl tree: sent %ld", s->bits_sent));
      send_tree(s, s.dyn_ltree, lcodes - 1); /* literal tree */
      //Tracev((stderr, "lit tree: sent %ld", s->bits_sent));
      send_tree(s, s.dyn_dtree, dcodes - 1); /* distance tree */
      //Tracev((stderr, "dist tree: sent %ld", s->bits_sent));
   }

/* ===========================================================================
* Check if the data type is TEXT or BINARY, using the following algorithm:
* - TEXT if the two conditions below are satisfied:
*    a) There are no non-portable control characters belonging to the
*       "black list" (0..6, 14..25, 28..31).
*    b) There is at least one printable character belonging to the
*       "white list" (9 {TAB}, 10 {LF}, 13 {CR}, 32..255).
* - BINARY otherwise.
* - The following partially-portable control characters form a
*   "gray list" that is ignored in this detection algorithm:
*    (7 {BEL}, 8 {BS}, 11 {VT}, 12 {FF}, 26 {SUB}, 27 {ESC}).
* IN assertion: the fields Freq of dyn_ltree are set.
*/
function detect_data_type(s) {
   /* black_mask is the bit mask of black-listed bytes
      * set bits 0..6, 14..25, and 28..31
   */
var black_mask = 0xf3ffc07f;
var n;

/* Check for non-textual ("black-listed") bytes. */
for (n = 0; n < 31; n++, black_mask >>= 1) {
  if ((black_mask & 1) && (s.dyn_ltree[n * 2].Freq/*!== 0)) {
    return Z_BINARY;
  }
}

/* Check for textual ("white-listed") bytes. */
if (s.dyn_ltree[9 * 2].Freq/*!== 0 || s.dyn_ltree[10 * 2].Freq/*!== 0 || s.dyn_ltree[13 * 2].Freq/*!== 0) {
  return Z_TEXT;
}
for (n = 32; n < LITERALS; n++) {
  if (s.dyn_ltree[n * 2].Freq/*!== 0) {
    return Z_TEXT;
  }
}

/* There are no "black-listed" or "white-listed" bytes:
 * this stream either is empty or has tolerated ("gray-listed") bytes only.
 */
return Z_BINARY;
}

var static_init_done = false;

/* Initialize the tree data structures for a new zlib stream. */
function _tr_init(s)
{
  if (!static_init_done) {
    tr_static_init();
    static_init_done = true;
  }

  s.l_desc = new TreeDesc(s.dyn_ltree, static_l_desc);
  s.d_desc = new TreeDesc(s.dyn_dtree, static_d_desc);
  s.bl_desc = new TreeDesc(s.bl_tree, static_bl_desc);
  s.bi_buf = 0;
s.bi_valid = 0;

/* Initialize the first block of the first file: */
init_block(s);
}

/* Send a stored block */
function _tr_stored_block(s, buf, stored_len, last)
//DeflateState *s;
//charf *buf; /* input block */
//ulg stored_len; /* length of input block */
//int last; /* one if this is the last block for a file */
{
    send_bits(s, (STORED_BLOCK << 1) + (last ? 1 : 0), 3); /* send block type */
    copy_block(s, buf, stored_len, true); /* with header */
}

/* Send one empty static block to give enough lookahead for inflate.
* This takes 10 bits, of which 7 may remain in the bit buffer.
*/
function _tr_align(s) {
    send_bits(s, STATIC_TREES << 1, 3);
    send_code(s, END_BLOCK, static_ltree);
    bi_flush(s);
}

/* Determine the best encoding for the current block: dynamic trees, static
* trees or store, and output the encoded block to the zip file.
*/
function _tr_flush_block(s, buf, stored_len, last)
//DeflateState *s;
//charf *buf; /* input block, or NULL if too old */
//ulg stored_len; /* length of input block */
//int last; /* one if this is the last block for a file */
{
    var opt_lenb, static_lenb; /* opt_len and static_len in bytes */
    var max_blindex = 0; /* index of last bit length code of non zero freq */

    /* Build the Huffman trees unless a stored block is forced */
    if (s.level > 0) {
        /* Build the Huffman trees unless a stored block is forced */
        /* Build the Huffman trees unless a stored block is forced */
    }
/* Check if the file is binary or text */
if (s.strm.data_type === Z_UNKNOWN) {
    s.strm.data_type = detect_data_type(s);
}

/* Construct the literal and distance trees */
build_tree(s, s.l_desc);
// Tracev((stderr, "\nlit data: dyn %ld, stat %ld", s->opt_len, 
//     s->static_len));
build_tree(s, s.d_desc);
// Tracev((stderr, "\ndist data: dyn %ld, stat %ld", s->opt_len, 
//     s->static_len));
/* At this point, opt_len and static_len are the total bit lengths of 
* the compressed block data, excluding the tree representations. 
*/

/* Build the bit length tree for the above two trees, and get the index 
* in bl_order of the last bit length code to send. */
max_blindex = build_bl_tree(s);

/* Determine the best encoding. Compute the block lengths in bytes. */
opt_lenb = (s.opt_len + 3 + 7) >>> 3;
static_lenb = (s.static_len + 3 + 7) >>> 3;

// Tracev((stderr, "\nopt %lu(%lu) stat %lu(%lu) stored %lu lit %u ", 
//     opt_lenb, s->opt_len, static_lenb, s->static_len, stored_len, 
//     s->last_lit));

if (static_lenb <= opt_lenb) { opt_lenb = static_lenb; }
} else {
    // Assert(buf != (char*)0, "lost buf");
    opt_lenb = static_lenb = stored_len + 5; /* force a stored block */
}

if ((stored_len + 4 <= opt_lenb) && (buf !== -1)) {
/* 4: two words for the lengths */

/* The test buf != NULL is only necessary if LIT_BUFSIZE > WSIZE. 
* Otherwise we can't have processed more than WSIZE input bytes since 
* the last block flush, because compression would have been 
* successful. If LIT_BUFSIZE <= WSIZE, it is never too late to 
* transform a block into a stored block. */
_tr_stored_block(s, buf, stored_len, last);
} else if (s.strategy === Z_FIXED || static_lenb === opt_lenb) {

    send_bits(s, (STATIC_TREES << 1) + (last ? 1 : 0), 3);
    compress_block(s, static_ltree, static_dtree);
}

} else {

    send_bits(s, (DYN_TREES << 1) + (last ? 1 : 0), 3);
    send_all_trees(s, s.l_desc.max_code + 1, s.d_desc.max_code + 1, max_blindex + 1);
    compress_block(s, s.dyn_ltree, s.dyn_dtree);
}

} // Assert (s->compressed_len == s->bits_sent, "bad compressed size");
/* The above check is made mod 2^32, for files larger than 512 MB
   * and uLong implemented on 32 bits.
   */
init_block(s);

if (last) {
    bi_windup(s);
}

// Tracev((stderr,"comprlen %lu(%lu) ", s->compressed_len>>3,
  // s->compressed_len-7*last));

/* ===========================================================================
* Save the match info and tally the frequency counts. Return true if
* the current block must be flushed.
*/
function _tr_tally(s, dist, lc)
//    deflate_state *s;
//    unsigned dist;  /* distance of matched string */
//    unsigned lc;    /* match length-MIN_MATCH or unmatched char (if dist==0) */
{
    //var out_length, in_length, dcode;
    s.pending_buf[s.d_buf + s.last_lit * 2]     = (dist >>> 8) & 0xff;
    s.pending_buf[s.d_buf + s.last_lit * 2 + 1] = dist & 0xff;
    s.pending_buf[s.l_buf + s.last_lit] = lc & 0xff;
    s.last_lit++;

    if (dist === 0) {
        /* lc is the unmatched char */
        s.matches++;
    } else {
        s.matches++;
    }

    /* Here, lc is the match length - MIN_MATCH */
    dist--;             /* dist = match distance - 1 */
    //Assert((ush)dist < (ush)MAX_DIST(s) &&
//       (ush)lc <= (ush)(MAX_MATCH-MIN_MATCH) &&
//       (ush)d_code(dist) < (ush)D_CODES, "_tr_tally: bad match”);

s.dyn_ltree[(_length_code[lc] + LITERALS + 1) * 2]/*.Freq*/++;
s.dyn_dtrees[d_code(dist)] * 2]/*.Freq*/++;
}

// (!) This block is disabled in zlib defaults,
// don’t enable it for binary compatibility

#ifndef TRUNCATE_BLOCK

// Try to guess if it is profitable to stop the current block here */
if (s.last_lit & 0x1fff) === 0 & s.level > 2) {  
/* Compute an upper bound for the compressed length */
out_length = s.last_lit*8;

for (dcode = 0; dcode < D_CODES; dcode++) {
out_length += s.dyn_dtrees[dcode*2]/*.Freq*/ *(5 + extra_dbits[dcode]);
}

out_length >>>= 3;
//Tracev((stderr,"%last_lit %u, in %ld, out ~%ld(%ld%%) ",
//s->last_lit, in_length, out_length,
//100 - out_length*100/in_length));
if (s.matches < (s.last_lit>>1)/*int /2*/ && out_length < (in_length>>1)/*int /2*/) {
  return true;
}
}
#endif

return (s.last_lit === s.lit_bufsize - 1);

/* We avoid equality with lit_bufsize because of wraparound at 64K
 * on 16 bit machines and because stored blocks are restricted to
 * 64K-1 bytes.
 */

exports._tr_init = _tr_init;
exports._tr_stored_block = _tr_stored_block;
exports._tr_flush_block = _tr_flush_block;
exports._tr_tally = _tr_tally;
exports._tr_align = _tr_align;

},{"./utils/common":41}],53:[function(require,module,exports){
  ‘use strict’;

  // (C) 1995-2013 Jean-loup Gailly and Mark Adler
  // (C) 2014-2017 Vitaly Puzrin and Andrey Tupitsin

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function ZStream() {
    /* next input byte */
    this.input = null; // JS specific, because we have no pointers
    this.next_in = 0;
    /* number of bytes available at input */
    this.avail_in = 0;
    /* total number of input bytes read so far */
    this.total_in = 0;
    /* next output byte should be put there */
    this.output = null; // JS specific, because we have no pointers
    this.next_out = 0;
    /* remaining free space at output */
    this.avail_out = 0;
    /* total number of bytes output so far */
    this.total_out = 0;
    /* last error message, NULL if no error */
    this.msg = "*/Z_NULL*/;
    /* not visible by applications */
    this.state = null;
    /* best guess about the data type: binary or text */
    this.data_type = 2/*Z_UNKNOWN*/;
    /* adler32 value of the uncompressed data */
    this.adler = 0;
}

module.exports = ZStream;

}]);54:{function(require,module,exports){
    'use strict';
    module.exports = typeof setImmediate === 'function' ? setImmediate :
    function setImmediate() {
```javascript
var args = [].slice.apply(arguments);
args.splice(1, 0, 0);
setTimeout.apply(null, args);
}

/*!

JSZip - A Javascript class for generating and reading zip files
<http://stuartk.com/jszip>

(c) 2009-2014 Stuart Knightley <stuart [at] stuartk.com>
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JSZip uses the library pako released under the MIT license :
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*/

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/*!

JSZip v3.2.1 - A JavaScript class for generating and reading zip files
<http://stuartk.com/jszip>

(c) 2009-2016 Stuart Knightley <stuart [at] stuartk.com>
```
All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.
Purely as an implementation detail, this means that `<code class="computeroutput">true_type</code>` inherits from `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">boost</a>` `<span class="identifier">mpl</span>` `<span class="special">::</span>` `<span class="identifier">true_</span>` (`<code class="computeroutput">false_type</code>` inherits from `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">boost</a>` `<span class="identifier">mpl</span>` `<span class="special">::</span>` `<span class="identifier">false_</span>`), and `<code class="computeroutput">integral_constant</code>` inherits from `<a href="/libs/mpl/doc/refmanual/integral-c.html" target="_top">boost</a>` `<span class="identifier">mpl</span>` `<span class="special">::</span>` `<span class="identifier">integral_c</span>` (`<code class="computeroutput">T</code>` is not `<code class="computeroutput">boost</a>` `<span class="identifier">mpl</span>` `<span class="special">::</span>` `<span class="identifier">integral_c</span>`).
Boost.Geometry (aka GGL, Generic Geometry Library)

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[quickbook 1.5]
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]

Maybe this should pass?
<?xml version="1.0" encoding="utf-8"?>

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</para>
</!--hr / -->
<!--[link url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</link>&#169; 2000-2002
</section>

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.aiuc.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 (dossiter@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 (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
non-IBM 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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Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
 namespace interprocess {
 namespace ipcdetail {

 template <class T, T val>
 struct integral_constant
 {
  static const T value = val;
  typedef integral_constant<T,val> type;
 };

 template< bool C_ >
 struct bool_ : integral_constant<bool, C_>
 {

static const bool value = C_; 
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C 
, typename T1
, typename T2
>
struct if_c
{
typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;   }
    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x;   }
};

template<std::size_t S>
struct ls_zeros
{
static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
}

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif  //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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Index: boost/mpl/print.hpp

```
--- boost/mpl/print.hpp (revision 83411)
+++ boost/mpl/print.hpp (working copy)
@@ -45,22 +45,21 @@
 #if defined(__MWERKS__)
         aux::print_base
-#endif
+#endif

#if defined(BOOST_MSVC)
    enum { n = sizeof(T) + -1 }; #if defined(__EDG_VERSION__) 
#elif defined(__MWERKS__)
    void f(int);
#endif
#else
-    enum {
-        n =
-# if defined(__EDG_VERSION__) 
-            aux::dependent_unsigned<T>::value > -1
-# else
-            sizeof(T) > -1
-# endif
-    } sizeof(T) > -1
#endif
#endif
+#endif

+else if defined(__EDG_VERSION__) 
+    enum { n = aux::dependent_unsigned<T>::value > -1 };
+endif
+endif
```

---
#if defined(BOOST_MSVC)

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/////////////////////////////////////////////////////////////////////////////
#endif

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
    namespace container {
        namespace container_detail {

            template <class T, T val>
            struct integral_constant {
                static const T value = val;
                typedef integral_constant<T,val> type;
            }

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_> {
                static const bool value = C_;  
                operator bool() const { return bool_::value; } 
            }

            typedef bool_<true> true_;
            typedef bool_<false> false_;

            typedef true_  true_type;
            typedef false_ false_type;

            typedef char yes_type;

        } // namespace container_detail
    } // namespace container
} // namespace boost

#endif // BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };}

template<
    bool C , typename T1 , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1 , typename T2
>

struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1,
    typename T2,
    typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<> 
struct ls_zeros<0>
{
    static const std::size_t value = 0;
template<> 
struct ls_zeros<1> 
{ 
  static const std::size_t value = 0; 
}; 

template <typename T> struct unvoid { typedef T type; }; 
template <> struct unvoid<void> { struct type { }; }; 
template <> struct unvoid<const void> { struct type { }; }; 
}  //namespace container_detail 
}  //namespace container 
}  //namespace boost 

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP 
#endif   //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP 

<?xml version="1.0" encoding="UTF-8"?> 
<!DOCTYPE article PUBLIC "/-//Boost//DTD BoostBook XML V1.0//EN" "http://www.boost.org/tools/boostbook/dtd/boostbook.dtd" > 
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $" xmlns:xi="http://www.w3.org/2001/XInclude"> 
<title>Copyright Test</title> 
<articleinfo> 
<copyright> 
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder> 
</copyright> 
<copyright> 
<year>2018</year> <holder>Joe Blow, John Coe</holder> 
</copyright> 
<copyright> 
<year>1977</year> <year>1985</year> <holder>Someone else</holder> 
</copyright> 
</articleinfo> 
</article> 
[article Invalid copyright years 
[quickbook 1.5] 
[copyright 2010-2001 Timequake man] 
] 
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on 

Copyright: 

/*
 * Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.
 */

Open Source Used In Finesse Software 12.6(1) 9328
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{//
//  (C) Copyright Ion Gaztanaga 2006-2012
//
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//  (See accompanying file LICENSE_1_0.txt or copy at
//    http://www.boost.org/LICENSE_1_0.txt)
//
//
///////////////////////////////////////////////////////////////////////////////

#define BOOST_INTRUSIVE_DETAIL_MPL_HPP
#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
    namespace intrusive {
        namespace detail {
            typedef char one;
            struct two {one _[2];};

            template< bool C_> 
                struct bool_

            namespace boost {
                namespace intrusive {
                    namespace detail {

            typedef char one;
            struct two {one _[2];};

            template< bool C_> 
                struct bool_

{
    static const bool value = C_;  
};

typedef bool_<true>  true_;
typedef bool_<false> false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c 
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};  

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}; 

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible 
{
    typedef char true_t;
class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
        static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    
    bool C
    , typename T1
struct if_<
    typename C
    , typename T1
    , typename T2
> struct if_<C,T1,T2>::type
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
    , typename F1
    , typename F2
> struct eval_if_c
    : if_<C,F1,F2>::type
{
};

template<
    typename C
    , typename T1
    , typename T2
> struct eval_if
    : if_<C,T1,T2>::type
{
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
typedef T type;

#if defined(BOOST_MSVC) || defined(__BORLANDC__)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif

#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{  static const bool value = false; }

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
{  static const bool value = true; }

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{  static const bool value = true; }
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)(())>
{  static const bool value = true; }
#endif

#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)(())>
{  static const bool value = true; }
#endif

#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(())>
{  static const bool value = true; }

template<typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>{
    static const bool value = true;
};

#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>{
    static const bool value = true;
};

template<typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>{
    static const bool value = true;
};
#else

    template<typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>{
    static const bool value = true;
};

    #ifndef _MANAGED

        template<typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>{
    static const bool value = true;
};

    #endif

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#endif

template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>

template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>{
    static const bool value = true;
};
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>  
{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>  
{ static const bool value = true; };

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>  
{ static const bool value = true; };

#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>  
{ static const bool value = true; };

#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>  
{ static const bool value = false; };

template <typename T>
struct is_unary_or_binary_function
{ static const bool value = is_unary_or_binary_function_impl<T>::value; };

//boost::alignment_of yields to 10K lines of preprocessed code, so we  
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};
template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_ofHack<T>) - sizeof(T)
          , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };  

    template <typename V>
    static yes_type is_same_tester(V*, V*);
    static no_type is_same_tester(...);

    static T *t;
    static U *u;

    static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{  typedef const T type;   };

template<typename T>
struct remove_const
{  typedef T type;   };

template<typename T>
struct remove_const<const T>
{  typedef T type;   };

template<typename T>
```cpp
struct remove_cv
{
    typedef T type;
};

template<typename T>
struct remove_cv<const T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<const volatile T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<volatile T>
{
    typedef T type;
};

template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template<typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};
```
template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

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

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements
for an [../../../../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type]: that includes a number of
rather intrusive
workarounds for broken compilers.

Purely as an implementation detail, this
means that `__true_type` inherits from [../../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::true_`
`__false_type` inherits
from [../../../../libs/mpl/doc/refmanual/bool.html `boost::mpl::false_`
and `__integral_constant<T, v>` inherits from
[../../../../libs/mpl/doc/refmanual/integral-c.html `boost::mpl::integral_c<T,v>`] (provided `T` is not `bool`)

[endsect]
 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;

    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}

private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=""" << (p.root / p.file).string() << "">" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {

result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
}
return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }

    os <<
        "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"">\n"
    "<html>
    "<head>
    "<title>Boost Licence Dependency Information</title>
    if(m_module_list.size() == 1)
    {
        os << " for " "=" (m_module_list.begin());
    }
    os <<
        "<h1>Boost Licence Dependency Information</h1>
    if(m_module_list.size() == 1)
    {
        os << " for " "=" (m_module_list.begin());
    }
    os <<
        "</h1>\n"
    "<h2>Contents</h2>
    "<p><a href="#input">Input Information</a></p>
    if(!m_bsl_summary_mode)
    {
        os << "<a href="#summary">Licence Summary</a>\n"
        os << "<a href="#details">Licence Details</a>\n";
    }
while(i != j)
{
// title:
    os << "<A href="#" " " " make_link_target(licenses.first[i->first].license_name)" "">
" license_name << "</a>
++i;
}

os << "<a href="#files">Files with no recognised license</a>
" "<a href="#authors">Files with no recognised copyright holder</a>

if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...
" "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
" "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
" "<a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
" "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
" "<a href="#copyright">Copyright Holder Information</a>

    os << "<a href="#depend">File Dependency Information</a>
</pre>

// input Information:
//
/ os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
    os << "The following files were scanned for boost dependencies:<BR>
else
    os << "The following Boost modules were checked:<BR>

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>
    ++si;
}

os << "The Boost path was: <code>" << m_boost_path.string() << "</code>

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
// fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^\[[:blank:]*\]*#\[[:blank:]*\]*define\[[:blank:]*\]+BOOST_VERSION\[[:blank:]*\]+(\d+)\); boost::cmatch what; if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
  int version = boost::lexical_cast<int>(what.str(1));
  os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100 << "</p>\n";
}

// output each license:
//
// i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
  // start with the summary:
  //
  os << "<a name="summary"></a><h2>Licence Summary</h2>
  while(i != j)
  {
    // title:
    os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    // Copyright holders:
    os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" make_link_target(licenses.first[i->first].license_name) ">(see details)</a>";
    os << "</P></BLOCKQUOTE>\n";
    ++i;
  }
  //
  // and now the details:
  //
  i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
  while(i != j)
  {
    // title:
    os << "<H3><A name="" make_link_target(licenses.first[i->first].license_name) ""></A>";
// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_name << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
    // Copyright holders:
    os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:<P>
    std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
    os << *x << "<BR>";
    ++x;
}
    os << "</P></BLOCKQUOTE>\n";
    // Files using this license:
    os << "<P>This license applies to the following " << i->second.files.size() << " files:<P>
    std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>";
    ++m;
}
    os << "</P></BLOCKQUOTE>\n";
}
else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>\n";
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:<P>
    std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><br>
"<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:<p>

i2 = m_unknown_authors.begin();

j2 = m_unknown_authors.end();

while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}

os << "</p></BLOCKQUOTE>";

// Output list of files that have been moved over to the Boost
// Software License, along with enough information for human
// verification.
//
// os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
License</h2><br>
"<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:<p>

if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;

    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();

    int file_num = 1;

    while (i != ie)
    {
        os << "<p>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
        "</tt><br> <table border="1">
        <tr><td><pre>
        " << i->second.first << 
        "</pre></td><td><pre>
        " << i->second.second << 
        "</pre></table>";
        ++i;
        ++file_num;
    }
}
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
";

// The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
// Software License, but have not yet been:
<P>
<BLOCKQUOTE>

i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br">
    ++i2;
}
os << "</p></BLOCKQUOTE>";

// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software
// License</h2>
";

// The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software
License because we need the permission of more authors:
<P>
<BLOCKQUOTE>

i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br">
    ++i2;
}
os << "</p></BLOCKQUOTE>";

// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
";

// Permission of the following authors is needed before we can convert to the Boost Software License. The
// list of authors that have given their permission is contained in <code>more/blanket-
// permission.txt</code>
<P>
<BLOCKQUOTE>

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>
"));

os << "</p></BLOCKQUOTE>";

// output a table of copyright information:
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</H2>
";
std::map<std::string, std::set<fs::path, path_less>, ::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
";
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = ad->second.begin();
efi = ad->second.end();
while(fi != efi)
{
    os << split_path(m_boost_path, *fi) << " ";
    ++fi;
}
    os << "</td></tr><n";
    ++ad;
}
    os << "</table>n";
}

// output file dependency information:
//
// os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>

std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    lastDep = m_dependencies.end();
std::set<fs::path, path_less> seen_deps;
if (dep != last_dep)
while(true)
{
  os << " - ";
  if(fs::exists(m_boost_path / dep->second))
    os << split_path(m_boost_path, dep->second);
  else if(fs::exists(dep->second))
    os << split_path(fs::path(), dep->second);
  else
    os << dep->second.string();
  if(seen_deps.find(dep->second) != seen_deps.end())
    {
      os << " <I>(Circular dependency!)</I>");
      break; // circular dependency!!!
    }
  seen_deps.insert(dep->second);
  last_dep = dep;
  dep = m_dependencies.find(dep->second);
  if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
    break;
  os << "\n";
  ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
{
  std::string msg("Error writing to ");
  msg += m_dest_path.string();
  msg += ";
  std::runtime_error e(msg);
  boost::throw_exception(e);
}

1.1012 pillow 2.0.0-19.gtd1c6db8.el7
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Name: custompalette
Columns: 4
#
0 0 0  Index 3
65 38 30  Index 4
103 62 49  Index 6
79 73 72  Index 7
114 101 97  Index 8
208 127 100  Index 9
151 144 142  Index 10
221 207 199  Index 11
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GIMP Palette
Name: badpalettefile
Columns: 4
#
0 0 0 Index 3
0123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
34567890123456789
103 62 49 Index 6
79 73 72 Index 7
114 101 97 Index 8
208 127 100 Index 9
151 144 142 Index 10
221 207 199 Index 11

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

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1.1015 axiom-api 1.2.13

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```
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```

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```
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1.1026 gobject-introspection 1.56.1-1.el7

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1.1027 activemq-core 5.5.1

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1.1028 cxf-bundle 2.7.14

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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 "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
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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   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.

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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.

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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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) 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.

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library
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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ordinary General Public License).

To apply these terms, attach the following notices to the library. It is 
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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

That's all there is to it!

*uganda.txt* For Vim version 8.1. Last change: 2018 May 17

VIM REFERENCE MANUAL by Bram Moolenaar

== uganda ==

SUMMARY

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

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

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

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

=== begin of license ===

VIM LICENSE

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

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes.
   b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.
   c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.
   d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
      - The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
      - You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
      - You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.
   The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.
When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

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

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

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

== end of license ==

Note:

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

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

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

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

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

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

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

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

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

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

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).
Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

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

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

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

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

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

Sending money:*iccf-donations*

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

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

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They
take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

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

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

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

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

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

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

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

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

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(XPM - X PixMap format version 2 & 3)
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1.1033 jetty-util 7.5.4.v20111024

1.1034 xstream 1.4.15
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/extended/ToStringConverter.java
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  jar/com/thoughtworks/xstream/io/xml/TraxSource.java
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  jar/com/thoughtworks/xstream/security/TypeHierarchyPermission.java
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jar/com/thoughtworks/xstream/converters/basic/StringBuilderConverter.java
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jar/com/thoughtworks/xstream/io/AttributeNameIterator.java
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jar/com/thoughtworks/xstream/converters/enums/EnumSetConverter.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1.4-15-sources-1.jar/com/thoughtworks/xstream/converters/basic/FloatConverter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1.4-15-sources-1.jar/com/thoughtworks/xstream/converters/basic/ShortConverter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1.4-15-sources-1.jar/com/thoughtworks/xstream/converters/basic/CharConverter.java

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  jar/com/thoughtworks/xstream/converters/extended/GregorianCalendarConverter.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1.jar/com/thoughtworks/xstream/annotations/Annotations.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
jar/com/thoughtworks/xstream/converters/collections/CharArrayConverter.java
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Found in path(s):
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
jar/com/thoughtworks/xstream/core/TreeUnmarshaller.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
jar/com/thoughtworks/xstream/core/util/ISO8601JavaTimeConverter.java
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Found in path(s):
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1.jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamWriter.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/converters/time/AbstractChronoLocalDateConverter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/converters/time/JapaneseDateConverter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/converters/time/MinguoDateConverter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/converters/time/ValueRangeConverter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/converters/time/WeekFieldsConverter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/converters/time/ThaiBuddhistDateConverter.java

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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/converters/time/OffsetTimeConverter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/converters/time/YearMonthConverter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/converters/time/YearConverter.java

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  jar/com/thoughtworks/xstream/io/AbstractReader.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/annotations/XStreamOmitField.java
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  jar/com/thoughtworks/xstream/io/xml/SjsxpDriver.java

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  jar/com/thoughtworks/xstream/converters/reflection/SerializationMethodInvoker.java

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  jar/com/thoughtworks/xstream/mapper/XmlFriendlyMapper.java
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  jar/com/thoughtworks/xstream/converters/basic/StringConverter.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/time/package.html

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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/ConverterMatcher.java

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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1.4.15-sources-1-
  jar/com/thoughtworks/xstream/converters/time/ZoneIdConverter.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1.4.15-sources-1-
  jar/com/thoughtworks/xstream/converters/extended/ThrowableConverter.java
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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: joehni
Build-Jdk: 1.8.0_265
Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
Implementation-Version: 1.4.15
Implementation-Vendor-Id: com.thoughtworks.xstream
Implementation-Vendor: XStream
Bundle-License: BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: XStream Core Sources
Bundle-SymbolicName: xstream.sources
Bundle-Vendor: XStream Sources
Bundle-Version: 1.4.15 Sources
Eclipse-SourceBundle: xstream;version=1.4.15
Specification-Version: 1.4
X-Build-Os: Linux
X-Build-Time: 2020-12-12T23:22:23Z
X-Builder: Maven 3.6.3
X-Compile-Source: 1.4
X-Compile-Target: 1.4
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/basic/BigDecimalConverter.java
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* com.thoughtworks.xstream.converters.reflection.
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  jar/com/thoughtworks/xstream/core/util/SelfStreamingInstanceChecker.java
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  jar/com/thoughtworks/xstream/io/xml/CompactWriter.java
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  jar/com/thoughtworks/xstream/security/TypePermission.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/mapper/SecurityMapper.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/security/ForbiddenClassException.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/security/NoTypePermission.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/security/AnyTypePermission.java
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  * /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/extended/SqlTimeConverter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/extended/SqlDateConverter.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/basic/AbstractSingleValueConverter.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/time/LocalDateTimeConverter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/time/OffsetDateTimeConverter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/time/ZonedDateTimeConverter.java

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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/converters/reflection/ImmutableFieldKeySorter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/converters/reflection/FieldKeySorter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/converters/reflection/FieldKey.java
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  jar/com/thoughtworks/xstream/security/InterfaceTypePermission.java
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  jar/com/thoughtworks/xstream/converters/reflection/AbstractAttributedCharacterIteratorAttributeConverter.java
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  jar/com/thoughtworks/xstream/io/json/AbstractJsonWriter.java
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  jar/com/thoughtworks/xstream/core/util/XmlHeaderAwareReader.java
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  jar/com/thoughtworks/xstream/converters/javabean/BeanProvider.java
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  jar/com/thoughtworks/xstream/io/xml/JDom2Driver.java
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  jar/com/thoughtworks/xstream/mapper/OuterClassMapper.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1.jar/com/thoughtworks/xstream/io/xml/XomWriter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1.jar/com/thoughtworks/xstream/io/xml/JDomReader.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/mapper/SystemAttributeAliasingMapper.java
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Found in path(s):
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/reflection/ExternalizableConverter.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
jar/com/thoughtworks/xstream/io/xml/XppReader.java
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jar/com/thoughtworks/xstream/converters/DataHolder.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
jar/com/thoughtworks/xstream/converters/javabean/ComparingPropertySorter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
jar/com/thoughtworks/xstream/converters/javabean/PropertySorter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/persistence/FileStreamStrategy.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/persistence/StreamStrategy.java
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 * c.t.x.converters.reflection.SerializationMemberInvoker.
 */

Found in path(s):
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/core/util/SerializationMembers.java
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Found in path(s):
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Found in path(s):
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/io/copy/HierarchicalStreamCopier.java
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Found in path(s):
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/time/InstantConverter.java
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Found in path(s):
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/io/HierarchicalStreamReader.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/core/util/PresortedMap.java
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Found in path(s):
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/mapper/AttributeMapper.java
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jar/com/thoughtworks/xstream/core/TreeMarshaller.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
jar/com/thoughtworks/xstream/converters/reflection/MissingFieldException.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
jar/com/thoughtworks/xstream/core/util/Poll.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/io/xml/DomReader.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/io/path/PathTracker.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/io/xml/XppDomReader.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/mapper/CannotResolveClassException.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/core/util/ClassLoaderReference.java
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 * /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
   jar/com/thoughtworks/xstream/mapper/LocalConversionMapper.java

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Found in path(s):
 * /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
   jar/com/thoughtworks/xstream/io/xml/XStream11NameCoder.java
 * /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
   jar/com/thoughtworks/xstream/io/naming/NoNameCoder.java
 * /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
   jar/com/thoughtworks/xstream/io/naming/NameCoderWrapper.java
 * /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
   jar/com/thoughtworks/xstream/io/naming/StaticNameCoder.java

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Found in path(s):
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/extended/ToAttributedValueConverter.java
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jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshallingStrategy.java
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jar/com/thoughtworks/xstream/mapper/XStream11XmlFriendlyMapper.java
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  * /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/security/ExplicitTypePermission.java
  * /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/security/NullPermission.java
  * /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/security/RegExpTypePermission.java
  * /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/security/ArrayTypePermission.java
  * /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/security/WildcardTypePermission.java

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  /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriter.java
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  /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/basic/IntConverter.java
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  jar/com/thoughtworks/xstream/io/xml/WstxDriver.java
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  jar/com/thoughtworks/xstream/converters/time/HijrahDateConverter.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
jar/com/thoughtworks/xstream/persistence/XmlSet.java
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jar/com/thoughtworks/xstream/mapper/AnnotationMapper.java
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jar/com/thoughtworks/xstream/converters/basic/URIConverter.java
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  */opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/core/AbstractTreeMarshallingStrategy.java
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  */opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/annotations/AnnotationReflectionConverter.java
  */opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/annotations/AnnotationProvider.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
jar/com/thoughtworks/xstream/converters/basic/package.html
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jar/com/thoughtworks/xstream/converters/ErrorWritingException.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/time/PeriodConverter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/converters/time/DurationConverter.java

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jar/com/thoughtworks/xstream/io/xml/XomReader.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
jar/com/thoughtworks/xstream/security/ProxyTypePermission.java
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jar/com/thoughtworks/xstream/core/TreeMarshallingStrategy.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
jar/com/thoughtworks/xstream/core/ReferenceByIdMarshallingStrategy.java

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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1.4.15-sources-1.jar/com/thoughtworks/xstream/io/binary/BinaryStreamReader.java
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Found in path(s):
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/annotations/XStreamConverter.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/converters/reflection/AbstractReflectionConverter.java
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/**
* A SAX { @link org.xml.sax.XMLReader parser} that acts as an XStream
* { @link com.thoughtworks.xstream.io.HierarchicalStreamWriter} to enable direct generation of a
* SAX event flow from the XStream serialization of a list of list of Java objects.
* <p>
* As a
* custom SAX parser, this class ignores the arguments of the two standard parse methods ({{ @link
* #parse(java.lang.String)}}
* and ({{ @link #parse(org.xml.sax.InputSource)}})) but relies on a proprietary SAX property
* {@link #SOURCE_OBJECT_LIST_PROPERTY} to define the list of objects to serialize.
* </p>
* <p>
* Configuration of this SAX parser is achieved through the standard
* {@link #setProperty SAX property mechanism}. While specific setter methods require direct
* access to the parser instance, SAX properties support configuration settings to be propagated
* through a chain of {@link org.xml.sax.XMLFilter filters} down to the underlying parser
* object.
* </p>
* <p>
* This mechanism shall be used to configure the
* {@link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized} as well as the
* {@link #CONFIGURED_XSTREAM_PROPERTY XStream facade}.
* </p>
* 
* @author Laurent Bihanic
*/
/**
 */
/*
 * Sets the value of a property.
 * <p>
 * The property name is any fully-qualified URI. It is
 * possible for an XMLReader to recognize a property name but
 * to be unable to set its value.</p>
 * <p>
 * XMLReaders are not required to recognize setting any
 * specific property names, though a core set is provided with
 * SAX2.</p>
 * <p>
 * Some property values may be immutable or mutable only
 * in specific contexts, such as before, during, or after
 * a parse.</p>
 * <p>
 * This method is also the standard mechanism for setting
 * extended handlers.</p>
 * <p>
 * <strong>Note</strong>: This implementation only supports two
 * (proprietary) properties: {@link #CONFIGURED_XSTREAM_PROPERTY}
 * and {@link #SOURCE_OBJECT_LIST_PROPERTY}.</p>
 * 
 * @param name the property name, which is a fully-qualified URI.
 * @param value the requested value for the property.
 * @throws SAXNotRecognizedException when the XMLReader does not
 * recognize the property name.
 * @throws SAXNotSupportedException when the XMLReader recognizes
 * the property name but cannot set
 * the requested value.
 * @see #getProperty
 */
/**
 * Parses an XML document from a system identifier (URI).
 * <p>
 * This method is a shortcut for the common case of reading a
 * document from a system identifier. It is the exact
 * equivalent of the following:</p>
 * <blockquote>
 * parse(new InputSource(systemId));
 * </blockquote>
 * <p>
 * If the system identifier is a URL, it must be fully resolved
 * by the application before it is passed to the parser.</p>
 * <p>
 * Note: As a custom SAX parser, this class
 * ignores the <code>systemId</code> argument of this method
 * and relies on the proprietary SAX property
 * [@link #SOURCE_OBJECT_LIST_PROPERTY]) to define the list of
 * objects to serialize.
 * @param systemId the system identifier (URI).
 * @throws SAXException Any SAX exception, possibly wrapping
 * another exception.
 * @see #parse(org.xml.sax.InputSource)
 */

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jar/com/thoughtworks/xstream/persistence/PersistenceStrategy.java

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jar/com/thoughtworks/xstream/io/xml/PrettyPrintWriter.java

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jar/com/thoughtworks/xstream/converters/extended/LookAndFeelConverter.java
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jar/com/thoughtworks/xstream/annotations/XStreamImplicit.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
jar/com/thoughtworks/xstream/converters/ConverterLookup.java
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jar/com/thoughtworks/xstream/XStreamException.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
jar/com/thoughtworks/xstream/core/util/FastField.java
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  jar/com/thoughtworks/xstream/persistence/XmlArrayList.java
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  jar/com/thoughtworks/xstream/io/xml/XmlFriendlyWriter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
  jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReader.java
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  jar/com/thoughtworks/xstream/converters/collections/SingletonMapConverter.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/core/util/Base64JavaUtilCodec.java
* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1-jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java
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* /opt/cola/permits/1141593930_1615027216.03/0/xstream-1-4-15-sources-1.jar/com/thoughtworks/xstream/converters/extended/NamedArrayConverter.java
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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interface-compatible with the version that the work was made with.

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

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* /opt/cola/permits/1150951680_1617727530.68/0/servlet-api-4-0-0-sources-3-jar/org/xipki/http/servlet/ServletURIPool.java

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* /opt/ws_local/PERMITS_SQL/1001157792_1600475344.17/0/spring-osgi-core-1-2-1-sources-jar/org/springframework/osgi/service/service/importer/support/internal/aop/BaseServiceReferenceProxy.java
1.1038 jboss-logging 3.1.3.GA

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1.1047 commons-logging-api 1.0.4

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1.1048 harfbuzz 0.9.32

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* /opt/cola/permits/1136704111_1613864460.76/0/spring-core-3-0-5-release-sources-3-jar/org/springframework/core/io/FileSystemResourceLoader.java
* /opt/cola/permits/1136704111_1613864460.76/0/spring-core-3-0-5-release-sources-3-jar/org/springframework/core/task/TaskTimeoutException.java
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* /opt/cola/permits/1136704111_1613864460.76/0/spring-core-3-0-5-release-sources-3.jar/org/springframework/core/PropertiesPersister.java
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1.1058 binutils 2.27-41.base.el7.3

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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-compiler 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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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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1.1090 commons-logging 1.1

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1.1091 istack-commons 2.13

1.1092 dhcp 4.2.5 68.el7.centos.1

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

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

</xsl:stylesheet>
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* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfa2bb5b6.

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

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

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* /opt/cola/permits/1137195041_1614028761.45/0/bson-2-13-0-sources-2-jar/org/bson/types/MinKey.java
* /opt/cola/permits/1137195041_1614028761.45/0/bson-2-13-0-sources-2-jar/org/bson/types/package.html
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Found in path(s):
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/ConstructorResolver.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/common/ExpressionUtils.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/framework/Expression/TypedValue.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/framework/Expression/StandardTypeConverter.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/framework/Expression/MethodResolver.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/framework/Expression/ReflectiveConstructorExecutor.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/framework/Expression/BeanResolver.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/framework/Expression/spel/ast/Projection.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/framework/Expression/spel/ast/FunctionReference.java
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"foo${expr0}bar${expr1}". The static

Found in path(s):
* number of expressions all contained in "${...}" markers. For instance

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* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
  jar/org/springframework/expression/spel/ast/AstUtils.java
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" +

Found in path(s):
* " for expression starting at character " + prefixIndex + "
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case ']': case 'l':

Found in path(s):
* case 'l'
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//www.apache.org/licenses/LICENSE-2.0

Found in path(s):
* ** http
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case '[': case '(':

Found in path(s):
* case '

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Found in path(s):
* // Chew on the expression text - relying on the rules
  * case '\'
  * case ""
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square brackets [ ] round brackets () and curly brackets { }

Found in path(s):
* * Bracket is used to describe
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Found in path(s):
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/Expression.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/MethodExecutor.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/NullLiteral.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/standard/TokenKind.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/OperatorOverloader.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/OpGE.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/TypeLocator.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/ParseException.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/AccessException.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/Identifier.java
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* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/spel/OperatorPower.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/spel/StandardTypeComparator.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/spel/StandardTypeComparator.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/spel/OperatorBetween.java
* /opt/ cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/spel/Identifier.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpLT.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/Elvis.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/ConstructorExecutor.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/TypeCode.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/OpOr.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ExpressionState.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/OpModulus.java

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* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/SpelParseException.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/parser/ParseException.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/parser/ParserContext.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/SpelEvaluationException.java

1.1104 traceroute 2.0.22 2.el7
1.1104.1 Available under license:

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* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1.jar/org/springframework/aop/framework/adapter/DefaultAdvisorAdapterRegistry.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1.jar/org/springframework/aop/config/AdvisorComponentDefinition.java
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* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1.jar/org/springframework/aop/aspectj/AspectJProxyUtils.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1.jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
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* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-
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* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-
  jar/org/springframework/aop/support/AbstractRegexpMethodPointcut.java
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* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-jar/org/springframework/aop/framework/AbstractPrototypeBasedTargetSource.java

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* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-jar/org/springframework/aop/interceptor/JamonPerformanceMonitorInterceptor.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-jar/org/springframework/aop/aspectj/InstantiationModelAwarePointcutAdvisor.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-jar/org/springframework/aop/aspectj/TruePointcut.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-jar/org/springframework/aop/AopInvocationException.java
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* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-jar/org/springframework/aop/interceptor/DebugInterceptor.java
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* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-jar/org/springframework/aop/interceptor/PerformanceMonitorInterceptor.java

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1.1118 python 2.7.5
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A. HISTORY OF THE SOFTWARE

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

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

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

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2.6.4   2.6.3  2009   PSF   yes
2.6.5   2.6.4  2010   PSF   yes
2.7     2.6   2010   PSF   yes

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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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Mersenne Twister
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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
Project, http://www.wide.ad.jp/, ::

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

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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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- Arguments more compliant with Python standard

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

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Select kqueue
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--------------

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1.1119 redux-devtools-extension 2.13.2

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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/StaticMarkerBinder.java
* /opt/cola/permits/1136044785_1613665011.12/0/slf4j-simple-1-7-24-sources-1-
  jar/org/slf4j/impl/SimpleLoggerFactory.java
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* /opt/cola/permits/1136044785_1613665011.12/0/slf4j-simple-1-7-24-sources-1-jar/org/slf4j/implementations/SimpleLogger.java

1.1121 signpostcommonshttp 1.2.1.2

1.1122 js-base64 2.5.1

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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in
  libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

1.1125 angular-ui-router 0.2.15
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1.1126 slf4j-simple 1.6.1

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  jar/org/slf4j/impl/SimpleLoggerFactory.java

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* /opt/cola/permits/1136044794_1613664901.92/0/slf4j-simple-1-6-1-sources-1.jar/org/slf4j/impl/StaticLoggerBinder.java
* /opt/cola/permits/1136044794_1613664901.92/0/slf4j-simple-1-6-1-sources-1.jar/org/slf4j/impl/StaticMDCBinder.java
* /opt/cola/permits/1136044794_1613664901.92/0/slf4j-simple-1-6-1-sources-1.jar/org/slf4j/impl/StaticMarkerBinder.java

1.1127 slf4j 1.7.2

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* /opt/cola/permits/1126579441_1611704405.52/0/slf4j-api-1-7-2-sources-jar/org/slf4j/IMarkerFactory.java
* /opt/cola/permits/1126579441_1611704405.52/0/slf4j-api-1-7-2-sources-jar/org/slf4j/Logger.java
* /opt/cola/permits/1126579441_1611704405.52/0/slf4j-api-1-7-2-sources-jar/org/slf4j/MarkerFactory.java
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* /opt/cola/permits/1126579441_1611704405.52/0/slf4j-api-1-7-2-sources-jar/org/slf4j/spi/MDCAdapter.java
1.1128 tyrus-container-spi 1.10

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1.1129 commons-validator 1.1.4

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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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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/GenericValidator.java,v
1.29 2004/02/21 17:10:29 rleland Exp$
 * $Revision: 1.29$
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$Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Arg.java,v 1.17 $
2004/02/21 17:10:29 rleland Exp $  
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* /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 $  
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/*
* Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/ValidatorResult.java,v
1.11 2004/02/21 17:10:29 rleland Exp $
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* Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Attic/Constant.java,v
1.10 2004/02/21 17:10:29 rleland Exp $  
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  jar/org/apache/commons/validator/Constant.java
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 * 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
No license file was found, but licenses were detected in source scan.

/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/GenericTypeValidator.java,v
 * 1.13 2004/02/21 17:10:29 rleland Exp $  
 * $Revision: 1.13 $  

Found in path(s):
* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-
  jar/org/apache/commons/validator/GenericTypeValidator.java

No license file was found, but licenses were detected in source scan.
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 $
 * $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/ValidatorResults.java
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jar/org/apache/commons/validator/Validator.java
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* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-
jar/org/apache/commons/validator/ValidatorAction.java
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  * /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-
    jar/org/apache/commons/validator/ValidatorUtil.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/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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  * /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-
    jar/org/apache/commons/validator/FormSet.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/ValidatorResources.java,v 1.30.2.2 2004/06/22
 * 02:24:38 husted Exp $
 * $Revision: 1.30.2.2 $

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  jar/org/apache/commons/validator/ValidatorResources.java

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jar/org/apache/commons/validator/CreditCardValidator.java

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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/DateValidator.java,v 1.6
2004/02/21 17:10:29 rleland Exp $
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jar/org/apache/commons/validator/DateValidator.java

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 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/EmailValidator.java,v
1.12 2004/02/21 17:10:29 rleland Exp $
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 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Var.java,v 1.11
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  jar/org/apache/commons/validator/Var.java
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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Attic/ValidatorResourcesInitializer.java,v 1.22
2004/02/21 17:10:29 rleland Exp $
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  jar/org/apache/commons/validator/ValidatorResourcesInitializer.java

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1.1145 oro 2.0.7

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Daniel Savarese <dfs at savarese.org> is the original author of the
OROMatcher, PerlTools, AwkTools, and TextTools packages that became
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Jon Stevens <jon at collab.net> helped prepare the first release of
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with the Jakarta project as a whole.

Takashi Okamoto <tokamoto at rd.nttdata.co.jp> has contributed a unicode
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Mark Murphy <markm at tyrell.com> has contributed performance
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\UuLlE and escaping of $.

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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Douglas Gilbert
10th April 2012
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* /opt/cola/permits/1126029915_1611547194.91/0/slf4j-api-1-7-25-sources- zip/org/slf4j/spi/LocationAwareLogger.java
* /opt/cola/permits/1126029915_1611547194.91/0/slf4j-api-1-7-25-sources-zip/org/slf4j/Logger.java
* /opt/cola/permits/1126029915_1611547194.91/0/slf4j-api-1-7-25-sources-zip/org/slf4j/impl/StaticMarkerBinder.java
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* /opt/cola/permits/1126029915_1611547194.91/0/slf4j-api-1-7-25-sources-zip/org/slf4j/Marker.java
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* /opt/cola/permits/1126029915_1611547194.91/0/slf4j-api-1-7-25-sources-zip/org/slf4j/helpers/BasicMDCAdapter.java
* /opt/cola/permits/1126029915_1611547194.91/0/slf4j-api-1-7-25-sources-zip/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/1126029915_1611547194.91/0/slf4j-api-1-7-25-sources-zip/org/slf4j/spi/MDCAdapter.java
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* /opt/cola/permits/1126029915_1611547194.91/0/slf4j-api-1-7-25-sources-zip/org/slf4j/ILoggerFactory.java
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1.1159 libnl3 3.2

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bzip2/libbz2 version 1.0.4 of 20 December 2006

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1.1163 logback-core 1.2.3

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

  Author: Julio Merino <jmmv@users.sourceforge.net>
* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cffe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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**1.1166 icu 50.1.2-17.el7**

**1.1166.1 Available under license:**

```makefile
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2009, International Business Machines Corporation and
## others. All Rights Reserved.

## 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,
```

Open Source Used In Finesse Software 12.6(1) 10480
## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname-Wl,$(notdir $(MIDDLE_SO_TARGET))

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

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

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {<F}.$(SO).$(SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup
1.1167 libwww 5.4.2
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1.1170 json-simple 1.1.1

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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
  jar/javassist/tools/reflect/Compiler.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-

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  jar/javassist/bytecode/annotation/StringMemberValue.java
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  jar/javassist/bytecode/annotation/ByteMemberValue.java

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1.1183 jaxb-api 2.2.11

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* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-jar/org/apache/cassandra/io/util/BufferedPoolingSegmentedFile.java
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  jar/org/apache/cassandra/auth/IInternodeAuthenticator.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-
  jar/org/apache/cassandra/config/TriggerDefinition.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-
  jar/org/apache/cassandra/db/IndexExpression.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-
  jar/org/apache/cassandra/auth/AllowAllInternodeAuthenticator.java
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  jar/org/apache/cassandra/utils/memory/MemtableAllocator.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-
  jar/org/apache/cassandra/utils/btree/Cursor.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-
  jar/org/apache/cassandra/utils/OutputHandler.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-
  jar/org/apache/cassandra/utils/btree/Path.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-
  jar/org/apache/cassandra/cql3/UntypedResultSet.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-
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  jar/org/apache/cassandra/transport/OptionCodec.java
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* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-
  jar/org/apache/cassandra/streaming/messages/FileMessageHeader.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-jar/org/apache/cassandra/dht/AbstractBounds.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-jar/org/apache/cassandra/cli/CliClient.java
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* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-jar/org/apache/cassandra/cql3/statements/AlterKeyspaceStatement.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-jar/org/apache/cassandra/db/composites/SimpleCType.java
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* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-jar/org/apache/cassandra/concurrent/SEPWorker.java
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* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1.jar/org/apache/cassandra/db/compaction/AbstractCompactionIterable.java
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* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1.jar/org/apache/cassandra/streaming/messages/OutgoingFileMessage.java
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* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1.jar/org/apache/cassandra/cql3/statements/DropTriggerStatement.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1.jar/org/apache/cassandra/cql3/statements/PropDefs.java
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* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-jar/org/apache/cassandra/db/marshal/UTF8Type.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-jar/org/apache/cassandra/exceptions/AlreadyExistsException.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-jar/org/apache/cassandra/thrift/ThriftConversion.java
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* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-jar/org/apache/cassandra/utils/BloomCalculations.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-jar/org/apache/cassandra/hadoop/ColumnFamilyRecordWriter.java
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* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1.jar/org/apache/cassandra/db/composites/AbstractSimpleCellNameType.java
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* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1.jar/org/apache/cassandra/io/util/FastByteArrayOutputStream.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1.jar/org/apache/cassandra/io/util/BufferedSegmentedFile.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1.jar/org/apache/cassandra/gms/HeartBeatState.java
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* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-
  jar/org/apache/cassandra/concurrent/JMXEnabledSharedExecutorPool.java
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  jar/org/apache/cassandra/db/columniterator/LazyColumnIterator.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-
  jar/org/apache/cassandra/db/columniterator/IColumnIteratorFactory.java
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  jar/org/apache/cassandra/thrift/TFramedTransportFactory.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-
  jar/org/apache/cassandra/metrics/ClientRequestMetrics.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-
  jar/org/apache/cassandra/db/filter/ColumnCounter.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-
  jar/org/apache/cassandra/db/commitlog/CommitLogDescriptor.java
* /opt/cola/permits/1138563450_1614290754.49/0/cassandra-all-2-1-11-sources-1-
  jar/org/apache/cassandra/hadoop/ConfigHelper.java
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1.1200 jackson-databind 2.12.1

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1.1201 json-java 20131018

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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Compressor.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Keep.java
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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Huff.java
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1.1202 bcmail 1.45.0

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1.1203 popt 1.13 16.el7

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1.1204 xmltooling 1.4.1

1.1205 d-bus 1.4.16

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1.1206 kmod 20 5.el7

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  jar/org/cyberneko/html/parsers/DOMFragmentParser.java
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  jar/org/cyberneko/html/SecuritySupport.java
* /opt/cola/permits/1146195599_1616477363.82/0/nekohtml-1-9-16-sources-1-
  jar/org/cyberneko/html/SecuritySupport12.java
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* /opt/cola/permits/1146195599_1616477363.82/0/nekohtml-1-9-16-sources-1-jar/org/cyberneko/html/HTMLEntities.java
* /opt/cola/permits/1146195599_1616477363.82/0/nekohtml-1-9-16-sources-1-jar/sample/TestHTMLDOMFragment.java
* /opt/cola/permits/1146195599_1616477363.82/0/nekohtml-1-9-16-sources-1-jar/org/cyberneko/html/HTMLElements.java
* /opt/cola/permits/1146195599_1616477363.82/0/nekohtml-1-9-16-sources-1-jar/org/cyberneko/html/parsers/DOMParser.java
* /opt/cola/permits/1146195599_1616477363.82/0/nekohtml-1-9-16-sources-1-jar/org/cyberneko/html/parsers/SAXParser.java
* /opt/cola/permits/1146195599_1616477363.82/0/nekohtml-1-9-16-sources-1-jar/org/cyberneko/html/filters/DefaultFilter.java
* /opt/cola/permits/1146195599_1616477363.82/0/nekohtml-1-9-16-sources-1-jar/org/cyberneko/html/parsers/Script.java
* /opt/cola/permits/1146195599_1616477363.82/0/nekohtml-1-9-16-sources-1-jar/HTMLErrorReporter.java
* /opt/cola/permits/1146195599_1616477363.82/0/nekohtml-1-9-16-sources-1-jar/HTMLTagBalancingListener.java
* /opt/cola/permits/1146195599_1616477363.82/0/nekohtml-1-9-16-sources-1-jar/HTMLTagBalancer.java
* /opt/cola/permits/1146195599_1616477363.82/0/nekohtml-1-9-16-sources-1-jar/HTMLEventInfo.java
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* /opt/cola/permits/1146195599_1616477363.82/0/nekohml-1-9-16-sources-1.jar/org/cyberneko/html/filters/NamespaceBinder.java

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* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2.jar/org/springframework/expression/spel/SpelParseException.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2.jar/org/springframework/expression/spel/ast/IntLiteral.java
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* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2.jar/org/springframework/expression/spel/SpelEvaluationException.java
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* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
jar/org/springframework/expression/spel/SpelCompilerMode.java
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jar/org/springframework/expression/spel/CompilablePropertyAccessor.java
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* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/spel/support/BooleanTypedValue.java
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* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/ConstructorResolver.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/MethodExecutor.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/ParserContext.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/spel/standard/SpelCompiler.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/spel/ast/FormatHelper.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/spel/ast/OperatorMatches.java
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 */

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* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2.jar/org/springframework/expression/ExpressionParser.java

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 */
Found in path(s):
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
  jar/org/springframework/expression/spel/ast/FunctionReference.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
  jar/org/springframework/expression/spel/CodeFlow.java
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  jar/org/springframework/expression/spel/ast/OpModulus.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
  jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
  jar/org/springframework/expression/spel/ast/MethodReference.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
  jar/org/springframework/expression/spel/ast/OpMinus.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
  jar/org/springframework/expression/spel/ast/OpMultiply.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
  jar/org/springframework/expression/spel/ast/OpDivide.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
  jar/org/springframework/expression/spel/ast/ConstructorReference.java

1.1214 pc re 8.32 17.el7
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1.1215 eclipse-compiler 3.21.0.v20200304-1404

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1.1216 jersey 1.14

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1.1217 hadoop-hdfs 2.2.0

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 */
package org.apache.hadoop.hdfs.protocol.datatransfer;

import org.apache.hadoop.HadoopIllegalArgumentException;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.hdfs.DFSConfigKeys;
import org.apache.hadoop.hdfs.protocol.DatanodeInfo;
```
/**
 * The setting of replace-datanode-on-failure feature.
 */
@InterfaceAudience.Private
@InterfaceStability.Evolving
public enum ReplaceDatanodeOnFailure {
    /** The feature is disabled in the entire site. */
    DISABLE,
    /** Never add a new datanode. */
    NEVER,
    /** DEFAULT policy:
     * Let r be the replication number.
     * Let n be the number of existing datanodes.
     * Add a new datanode only if r &ge; 3 and either
     * (1) floor(r/2) &ge; n; or
     * (2) r &gt; n and the block is hflushed/appended.
     */
    DEFAULT,
    /** Always add a new datanode when an existing datanode is removed. */
    ALWAYS;

    /** Check if the feature is enabled. */
    public void checkEnabled() {
        if (this == DISABLE) {
            throw new UnsupportedOperationException(
                "This feature is disabled. Please refer to " + DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_ENABLE_KEY + " configuration property.");
        }
    }

    /** Is the policy satisfied? */
    public boolean satisfy(
        final short replication, final DatanodeInfo[] existings,
        final boolean isAppend, final boolean isHflushed) {
        final int n = existings == null? 0: existings.length;
        if (n == 0 || n &ge; replication) {
            //don't need to add datanode for any policy.
            return false;
        } else if (this == DISABLE || this == NEVER) {
            return false;
        } else if (this == ALWAYS) {
            return true;
        } else {
            //DEFAULT
            if (replication &lt; 3) {
                return false;
            }
        }
    }
}
} else {
    if (n <= (replication/2)) {
        return true;
    } else {
        return isAppend || isHflushed;
    }
}

/** Get the setting from configuration. */
public static ReplaceDatanodeOnFailure get(final Configuration conf) {
    final boolean enabled = conf.getBoolean(
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_ENABLE_KEY,
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_ENABLE_DEFAULT);
    if (!enabled) {
        return DISABLE;
    }
    final String policy = conf.get(
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_POLICY_KEY,
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_POLICY_DEFAULT);
    for(int i = 1; i < values().length; i++) {
        final ReplaceDatanodeOnFailure rdof = values()[i];
        if (rdof.name().equalsIgnoreCase(policy)) {
            return rdof;
        }
    }
    throw new HadoopIllegalArgumentException("Illegal configuration value for "
        + DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_POLICY_KEY
        + ": " + policy);
}

/** Write the setting to configuration. */
public void write(final Configuration conf) {
    conf.setBoolean(
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_ENABLE_KEY,
        this != DISABLE);
    conf.set(
        DFSConfigKeys.DFS_CLIENT_WRITE_REPLACE_DATANODE_ON_FAILURE_POLICY_KEY,
        name());
}

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*/
package org.apache.hadoop.hdfs.web.resources;

import static org.apache.hadoop.hdfs.DFSConfigKeys.DFS_REPLICATION_DEFAULT;
import static org.apache.hadoop.hdfs.DFSConfigKeys.DFS_REPLICATION_KEY;

import org.apache.hadoop.conf.Configuration;

/** Replication parameter. */
public class ReplicationParam extends ShortParam {
    /** Parameter name. */
    public static final String NAME = "replication";
    /** Default parameter value. */
    public static final String DEFAULT = NULL;
    private static final Domain DOMAIN = new Domain(NAME);

    /** Constructor. */
    public ReplicationParam(final Short value) {
        super(DOMAIN, value, (short)1, null);
    }

    /** Constructor. */
    public ReplicationParam(final String str) {
        this(DOMAIN.parse(str));
    }

    @Override
    public String getName() {
        return NAME;
    }
}
/** @return the value or, if it is null, return the default from conf. */
public short getValue(final Configuration conf) {
    return getValue() != null? getValue(): (short)conf.getInt(DFS_REPLICATION_KEY, DFS_REPLICATION_DEFAULT);
}

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*/
package org.apache.hadoop.hdfs.web.resources;

import org.apache.hadoop.fs.permission.FsPermission;
/** Permission parameter, use a Short to represent a FsPermission. */
public class PermissionParam extends ShortParam {
    /** Parameter name. */
    public static final String NAME = "permission";
    /** Default parameter value. */
    public static final String DEFAULT = NULL;
    private static final Domain DOMAIN = new Domain(NAME, 8);
    private static final short DEFAULT_PERMISSION = 0755;
    /** @return the default FsPermission. */
    public static FsPermission getDefaultFsPermission() {
        return new FsPermission(DEFAULT_PERMISSION);
    }

    /** Constructor. *
     * @param value the parameter value.
     */
}
public PermissionParam(final FsPermission value) {
  super(DOMAIN, value == null? null: value.toShort(), null, null);
}

/**
 * Constructor.
 * @param str a string representation of the parameter value.
 */
public PermissionParam(final String str) {
  super(DOMAIN, DOMAIN.parse(str), (short)0, (short)01777);
}

@Override
public String getName() {
  return NAME;
}

/** @return the represented FsPermission. */
public FsPermission getFsPermission() {
  final Short v = getValue();
  return new FsPermission(v != null? v: DEFAULT_PERMISSION);
}

1.1218 c3p0 0.9.5.2
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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-
  jar/org/springframework/test/context/AbstractTransactionalSpringContextTests.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-
  jar/org/springframework/test/AbstractSingleSpringContextTests.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-
  jar/org/springframework/test/AbstractTransactionalDataSourceSpringContextTests.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-
  jar/org/springframework/test/AbstractAnnotationAwareTransactionalTests.java

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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock/web/portlet/MockPortletURL.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock/web/DelegatingServletOutputStream.java
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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/mock/web/ModelAndViewAssert.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/test/context/ContextConfiguration.java
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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/mock/web/portlet/MockPortletSession.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/mock/web/portlet/MockPortletContext.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/mock/web/MockMultipartActionRequest.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/mock/web/MockServletContext.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/mock/web/MockRequestDispatcher.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/mock/web/MockHttpSession.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/test/context/TestContextManager.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/mock/web/MockHttpServletRequest.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/mock/web/MockPortletRequest.java
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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-
1.1220 libusb 1.0.21-1.el7

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.
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* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cffe2bb5b6.

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

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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1.1230 zlib 1.2.11

1.1230.1 Available under license :

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

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Jean-loup Gailly        Mark Adler
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).

1.1231 tiger-types 1.4

1.1232 libx11 1.6.7-2.el7

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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.

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* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/support/ManagedList.java
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* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/parsing/CompositeComponentDefinition.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/config/ListFactoryBean.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/config/BeanExpressionResolver.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/support/MergedBeanDefinitionPostProcessor.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/config/DestructionAwareBeanPostProcessor.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/access/el/SpringBeanELResolver.java
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* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/support/BeanDefinitionValueResolver.java
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* /opt/cola/permits/1135936598_161368434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/stax/WstxEventFactory.java
* /opt/cola/permits/1135936598_161368434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/evt/DefaultEventAllocator.java
* /opt/cola/permits/1135936598_161368434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/io/AsciiReader.java
* /opt/cola/permits/1135936598_161368434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/io/EBCDICCodec.java
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* /opt/cola/permits/1135936598_161368434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/io/UTF32Reader.java
* /opt/cola/permits/1135936598_161368434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/exc/WstxException.java
* /opt/cola/permits/1135936598_161368434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/exc/WstxLazyException.java
* /opt/cola/permits/1135936598_161368434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/util/BaseNsContext.java
* /opt/cola/permits/1135936598_161368434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/dtd/PrefixedNameSet.java
* /opt/cola/permits/1135936598_161368434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/io/WstxInputData.java
* /opt/cola/permits/1135936598_161368434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/util/PrefixedName.java
* /opt/cola/permits/1135936598_161368434.54/0/woodstox-core-asl-4-0-11-sources-3.jar/com/ctc/wstx/evt/BaseStartElement.java
* /opt/cola/permits/1135936598_161368434.54/0/woodstox-core-asl-4-0-11-sources-3-
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jar/com/ctc/wstx/dtd/ContentSpec.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/dtd/DFAValidator.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/dtd/StructValidator.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/dtd/DFAState.java

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jar/com/ctc/wstx/sw/OutputElementBase.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/sw/SimpleOutputElement.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/util/BijectiveNsMap.java
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sax/SAXProperty.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sax/WstxSAXParser.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sax/WrappedSaxException.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sax/SAXFeature.java
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  * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/evt/WstxEventReader.java
  * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/msv/AttributeProxy.java
  * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/msv/BaseSchemaFactory.java
  * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/util/ElementIdMap.java
  * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/msv/RelaxNGSchema.java
  * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/msv/RelaxNGSchemaFactory.java
  * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DTDSubset.java
  * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DefaultAttrValue.java
  * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/NonNsStreamWriter.java
  * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DTDElement.java
  * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DefaultAttrValue.java
  * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/GenericMsvValidator.java
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/BaseNsStreamWriter.java

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* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1-
jar/org/springframework/beans/factory/BeanCurrentlyInCreationException.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1-
jar/org/springframework/beans/factory/parsing/Location.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1-
jar/org/springframework/beans/factory/parsing/PropertyEntry.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1-
jar/org/springframework/beans/factory/parsing/SourceExtractor.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1-
jar/org/springframework/beans/propertyeditors/ResourceBundleEditor.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1-
jar/org/springframework/beans/propertyeditors/ByteArrayPropertyEditor.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1-
jar/org/springframework/beans/InvalidPropertyException.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1-
jar/org/springframework/beans/MethodInvocationException.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1-
jar/org/springframework/beans/factory/parsing/PassThroughSourceExtractor.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1-
jar/org/springframework/beans/factory/parsing/ComponentDefinition.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1-
jar/org/springframework/beans/factory/parsing/ComponentDefinition.java
1.1249 lua 5.1.4 15.el7
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1.1251 jcommander 1.48
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  jar/com/beust/jcommander/converters/ISO8601DateConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
  jar/com/beust/jcommander/converters/PathConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
  jar/com/beust/jcommander/converters/IntegerConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
  jar/com/beust/jcommander/ParametersDelegate.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
  jar/com/beust/jcommander/converters/DoubleConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
  jar/com/beust/jcommander/IDefaultProvider.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
  jar/com/beust/jcommander/ResourceBundle.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
  jar/com/beust/jcommander/Parameters.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
  jar/com/beust/jcommander/MissingCommandException.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
  jar/com/beust/jcommander/JCommander.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
  jar/com/beust/jcommander/converters/StringConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
  jar/com/beust/jcommander/converters/LongConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
  jar/com/beust/jcommander/converters/FloatConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
  jar/com/beust/jcommander/converters/Lists.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
  jar/com/beust/jcommander/ParameterDescription.java
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* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-
jar/org/objectweb/asm/LabelNode.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-
jar/org/objectweb/asm/Frame.java
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* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/Tree/VarInsnNode.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/Util/ASMifierAbstractVisitor.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/Tree/analysis/AnalyzerException.java
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* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/commons/CheckMethodAdapter.java
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* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/util/CheckClassAdapter.java
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 * QUnit v1.11.0 - A JavaScript Unit Testing Framework
 *
1.1262 tiles-request-api 1.0.7
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1.1265 jersey-container-servlet 2.13

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* /opt/cola/permits/1078139635_1602070746.96/0/jackson-core-asl-1-9-0-sources-2-jar/org/codehaus/jackson/JsonFactory.java
* /opt/cola/permits/1078139635_1602070746.96/0/jackson-core-asl-1-9-0-sources-2-jar/org/codehaus/jackson/JsonStreamContext.java
* /opt/cola/permits/1078139635_1602070746.96/0/jackson-core-asl-1-9-0-sources-2-
1.1267 jersey-guava 2.10.1

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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/SingletonImmutableList.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/ComputationException.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/ImmutableSortedMapFauxverideShim.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/ImmutableAsList.java
jar/jersey/repackaged/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/SingletonImmutableTable.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/DiscreteDomain.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/AbstractIndexedListIterator.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/ForwardingTable.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/ForwardingTable.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/reflect/TypeResolver.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/ImmutableRangeMap.java

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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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  jar/jersey/repackaged/com/google/common/cache/Weigher.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
Jar/jersey/repackaged/com/google/common/math/MathPreconditions.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableMap.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/WriteMode.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/CharSink.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1.jar/jersey/repackaged/com/google/common/collection/ForwardingNavigableMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1.jar/jersey/repackaged/com/google/common/collection/AbstractMultimap.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1.jar/jersey/repackaged/com/google/common/collection/RegularImmutableSortedMap.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1.jar/jersey/repackaged/com/google/common/collection/TreeRangeMap.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1.jar/jersey/repackaged/com/google/common/collection/EmptyImmutableSortedMap.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1.jar/jersey/repackaged/com/google/common/reflect/package-info.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1.jar/jersey/repackaged/com/google/common/io/Closer.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/AbstractInvocationHandler.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/AbstractNavigableMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/ByteSource.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/ForwardingDeque.java

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  * /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1.jar/jersey/repackaged/com/google/common/collection/HashBiMap.java
  * /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1.jar/jersey/repackaged/com/google/common/collection/EnumMultiset.java
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jar/jersey/repackaged/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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jar/jersey/repackaged/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/EmptyImmutableListMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/Platform.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ImmutableListMultimap.java
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jar/jersey/repackaged/com/google/common/base/Joiner.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/ExplicitOrdering.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/ForwardingQueue.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/ForwardingSet.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/ForwardingSortedSet.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/base/AbstractIterator.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1.jar/jersey/repackaged/com/google/common/hash/AbstractHasher.java
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1.270 commons-beanutils 1.9.4

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October 28, 1997
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Sam Lantinga(slouken@libsdl.org)

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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](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

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## libressl

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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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## libssh2

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classes.

For additional credits (generally to people who reported problems)
see CREDITS file.
noggit

https://github.com/yonik/noggit
Monty <monty@xiph.org>

and the rest of the Xiph.org Foundation.

Java port by Ben Cohee <bpcohee@gmail.com>

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NekoHTML is written using the Xerces Native Interface (XNI) that is the foundation of the Xerces2 implementation. This enables you to use the NekoHTML parser with existing XNI tools without modification or rewriting code.

boilerpipe

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based on changes in the terms of the dependency being updated.
When adding a jar or updating an existing jar, be sure to include/update `xyz/LICENSE.txt` and if applicable, `xyz-NOTICE.txt`. These files often change across versions of the dependency, so when updating be SURE to update them to the recent version. This also allows others to see what changed with respect to licensing in the commit diff.

Any changes made to this directory should be noted in `CHANGES.txt`, along with the specific version information. If the version is a "snapshot" of another Apache project, include the SVN revision number.

When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

http://wiki.apache.org/solr/CommitterInfo

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boilerpipe

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/*--

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

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

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

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

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

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

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* /opt/cola/permits/1136472069_1613772321.87/0/jetty-continuation-7-5-4-v20111024.jar/about.html

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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven Bundle Plugin
Built-By: jesse
Build-Jdk: 1.6.0_26
Implementation-Vendor: Eclipse.org - Jetty
Implementation-Version: 7.5.4.v20111024
url: http://www.eclipse.org/jetty
Export-Package: org.eclipse.jetty.continuation;uses=javax.servlet,org.mortbay.log,org.mortbay.util.ajax;version="7.5.4"
Bundle-Classpath: .
Tool: Bnd-1.15.0
Bundle-Name: Jetty :: Continuation
Bundle-Localization: plugin
Bundle-RequiredExecutionEnvironment: J2SE-1.5
Bundle-Copyright: Copyright (c) 2008-2009 Mort Bay Consulting Pty. Ltd.
Bundle-Vendor: Eclipse Jetty Project
Bundle-Version: 7.5.4.v20111024
Bnd-LastModified: 1319486226683
Bundle-ManifestVersion: 2
Bundle-Description: Asynchronous API
Import-Package: javax.servlet;version=\"[2.5,3.1)\",org.mortbay.log;resolution=optional;version=\"[6.1,7)\",org.mortbay.util.ajax;resolution=optional;version=\"[6.1,7)\"
Bundle-SymbolicName: org.eclipse.jetty.continuation
Bundle-DocURL: http://www.eclipse.org/jetty

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* /opt/cola/permits/1136472069_1613772321.87/0/jetty-continuation-7-5-4-v20111024.jar/META-INF/MANIFEST.MF
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++++++++++++++++
Dean Elsner wrote the original gas for vax. [more details?]

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

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

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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and the initial implementation of incremental propagation, including the following new or changed files:

```plaintext
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
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Comment UniqueID 43053
Comment VMusage 14482 68586
FontName Helvetica-BoldOblique
FullName Helvetica Bold Oblique
FamilyName Helvetica
Weight Bold
ItalicAngle -12
IsFixedPitch false
CharacterSet ExtendedRoman
FontBBox -174 -228 1114 962
UnderlinePosition -100
UnderlineThickness 50
Version 002.000
EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 532
Ascender 718
Descender -207
StdHW 118
StdVW 140
StartCharMetrics 315
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C 33 ; WX 333 ; N exclam ; B 94 0 397 718 ;
C 34 ; WX 474 ; N quotedbl ; B 193 447 529 718 ;
C 35 ; WX 556 ; N numbersign ; B 60 0 644 698 ;
C 36 ; WX 556 ; N dollar ; B 67 -115 622 775 ;
C 37 ; WX 889 ; N percent ; B 136 -19 901 710 ;
C 38 ; WX 722 ; N ampersand ; B 89 -19 732 718 ;
C 39 ; WX 278 ; N quoteright ; B 167 445 362 718 ;
C 40 ; WX 333 ; N parenleft ; B 76 -208 470 734 ;
C 41 ; WX 333 ; N parenright ; B -25 -208 369 734 ;
C 42 ; WX 389 ; N asterisk ; B 146 387 481 718 ;
C 43 ; WX 584 ; N plus ; B 82 0 610 506 ;
C 44 ; WX 278 ; N comma ; B 28 -168 245 146 ;
C 45 ; WX 333 ; N hyphen ; B 73 215 379 345 ;
C 46 ; WX 278 ; N period ; B 64 0 245 146 ;
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Open Source Used In Finesse Software 12.6(1) 12101
Open Source Used In Finesse Software 12.6(1) 12107
Open Source Used In Finesse Software 12.6(1) 12111
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No license file was found, but licenses were detected in source scan.

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FullName Times Bold Italic
FamilyName Times
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UnderlineThickness 50
Version 002.000
Times is a trademark of Linotype-Hell AG and/or its subsidiaries.
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XHeight 462
Ascender 683
Descender -217
StdHW 42
StdVW 121
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  C 37 ; WX 833 ; N percent ; B 39 -10 793 692 ;
  C 38 ; WX 778 ; N ampersand ; B 5 -19 699 682 ;
  C 39 ; WX 333 ; N quoteright ; B 98 369 536 685 ;
  C 40 ; WX 333 ; N parenleft ; B 28 -179 344 685 ;
  C 41 ; WX 333 ; N parenright ; B -44 -179 271 685 ;
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Open Source Used In Finesse Software 12.6(1) 12120
Open Source Used In Finesse Software 12.6(1) 12121
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Open Source Used In Finesse Software 12.6(1) 12170
Open Source Used In Finesse Software 12.6(1) 12174
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Open Source Used in Finesse Software 12.6(1) 12286
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Open Source Used In Finesse Software 12.6(1) 12298
Open Source Used In Finesse Software 12.6(1) 12300
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Open Source Used In Finesse Software 12.6(1) 12347

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

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KPX Y Otilde -85
KPX Y a -140
KPX Y aacute -140
KPX Y abreve -70
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KPX Y amacron -70
KPX Y aogonek -140
KPX Y aring -140
KPX Y atilde -140
KPX Y colon -60
KPX Y comma -140
KPX Y e -140
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KPX Y edieresis -140
KPX Y edotaccent -140
KPX Y egrave -140
KPX Y emacron -70
KPX Y eogonek -140
KPX Y hyphen -140
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KPX Y iacute -20
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KPX Y period -140
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1.1331 dmraid 1.0.0.rc16 26.el7

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1.1334 harfbuzz 1.7.5

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1.1337 slf4j-log4j 1.7.12

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1.1338 jackson-dataformat-yaml 2.10.1

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1.1347 jax-rs-provider 1.9.2

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1.1348 tomcat-storeconfig 9.0.37

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1.1354 asm 5.2

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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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1.1362 man-db 2.6.3 11.el7

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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.)

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  analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
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  analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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package org.apache.batik.ext.awt.image.codec.util;

import java.awt.Point;
import java.awt.Rectangle;
import java.awt.image.ColorModel;
import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.awt.image.SampleModel;
import java.awt.image.WritableRaster;

import java.util.Vector;
import java.util.List;
import java.util.ArrayList;
import java.util.Map;
import java.util.HashMap;

/**
 * A simple class implemented the <code>RenderedImage</code>
 * interface. Only the <code>getTile()</code> method needs to be
 * implemented by subclasses. The instance variables must also be
 * filled in properly.
 * 
 * Normally in JAI <code>PlanarImage</code> is used for this
 * purpose, but in the interest of modularity the
 * use of <code>PlanarImage</code> has been avoided.
 * 
 * @version $Id: SimpleRenderedImage.java 498747 2007-01-22 18:56:19Z dvholten $
 */
public abstract class SimpleRenderedImage implements RenderedImage {

    /** The X coordinate of the image's upper-left pixel. */
    protected int minX;

    /** The Y coordinate of the image's upper-left pixel. */
    protected int minY;

    /** The image's width in pixels. */
    protected int width;

    /** The image's height in pixels. */
    protected int height;

    /** The width of a tile. */
    protected int tileWidth;

    /** The height of a tile. */
    protected int tileHeight;

}
/** The X coordinate of the upper-left pixel of tile (0, 0). */
protected int tileGridXOffset = 0;

/** The Y coordinate of the upper-left pixel of tile (0, 0). */
protected int tileGridYOffset = 0;

/** The image's SampleModel. */
protected SampleModel sampleModel = null;

/** The image's ColorModel. */
protected ColorModel colorModel = null;

/** The image's sources, stored in a Vector. */
protected List sources = new ArrayList();

/** A Hashtable containing the image properties. */
protected Map properties = new HashMap();

public SimpleRenderedImage() {}

/** Returns the X coordinate of the leftmost column of the image. */
public int getMinX() {
    return minX;
}

/**
 * Returns the X coordinate of the column immediately to the
 * right of the rightmost column of the image.  getMaxX() is
 * implemented in terms of getMinX() and getWidth() and so does
 * not need to be implemented by subclasses.
 */
public final int getMaxX() {
    return getMinX() + getWidth();
}

/** Returns the X coordinate of the uppermost row of the image. */
public int getMinY() {
    return minY;
}

/**
 * Returns the Y coordinate of the row immediately below the
 * bottom row of the image.  getMaxY() is implemented in terms of
 * getMinY() and getHeight() and so does not need to be
 * implemented by subclasses.
 */
public final int getMaxY() {
return getMinY() + getHeight();
}

/** Returns the width of the image. */
public int getWidth() {
    return width;
}

/** Returns the height of the image. */
public int getHeight() {
    return height;
}

/** Returns a Rectangle indicating the image bounds. */
public Rectangle getBounds() {
    return new Rectangle(getMinX(), getMinY(),
                         getWidth(), getHeight());
}

/** Returns the width of a tile. */
public int getTileWidth() {
    return tileWidth;
}

/** Returns the height of a tile. */
public int getTileHeight() {
    return tileHeight;
}

/**
 * Returns the X coordinate of the upper-left pixel of tile (0, 0).
 */
public int getTileGridXOffset() {
    return tileGridXOffset;
}

/**
 * Returns the Y coordinate of the upper-left pixel of tile (0, 0).
 */
public int getTileGridYOffset() {
    return tileGridYOffset;
}

/**
 * Returns the horizontal index of the leftmost column of tiles.
 * getMinTileX() is implemented in terms of getMinX()
 * and so does not need to be implemented by subclasses.
 */
public int getMinTileX() {
    return XToTileX(getMinX());
}

/**
 * Returns the horizontal index of the rightmost column of tiles.
 * getMinTileX() is implemented in terms of getMaxX()
 * and so does not need to be implemented by subclasses.
 */
public int getMaxTileX() {
    return XToTileX(getMaxX() - 1);
}

/**
 * Returns the number of tiles along the tile grid in the
 * horizontal direction.  getNumXTiles() is implemented in terms
 * of getMinTileX() and getMaxTileX() and so does not need to be
 * implemented by subclasses.
 */
public int getNumXTiles() {
    return getMaxTileX() - getMinTileX() + 1;
}

/**
 * Returns the vertical index of the uppermost row of tiles.  getMinTileY()
 * is implemented in terms of getMinY() and so does not need to be
 * implemented by subclasses.
 */
public int getMinTileY() {
    return YToTileY(getMinY());
}

/**
 * Returns the vertical index of the bottom row of tiles.  getMaxTileY()
 * is implemented in terms of getMaxY() and so does not need to
 * be implemented by subclasses.
 */
public int getMaxTileY() {
    return YToTileY(getMaxY() - 1);
}

/**
 * Returns the number of tiles along the tile grid in the vertical
 * direction.  getNumYTiles() is implemented in terms
 * of getMinTileY() and getMaxTileY() and so does not need to be
 * implemented by subclasses.
 */
public int getNumYTiles() {
```java
return getMaxTileY() - getMinTileY() + 1;
}

/** Returns the SampleModel of the image. */
public SampleModel getSampleModel() {
    return sampleModel;
}

/** Returns the ColorModel of the image. */
public ColorModel getColorModel() {
    return colorModel;
}

/**
 * Gets a property from the property set of this image. If the
 * property name is not recognized, <code>null</code> will be returned.
 *
 * @param name the name of the property to get, as a
 * <code>String</code>.
 * @return a reference to the property
 * <code>Object</code>, or the value <code>null</code>
 *
 * @return a reference to the property
 * <code>Object</code>, or the value <code>null</code>
 */
public Object getProperty(String name) {
    name = name.toLowerCase();
    return properties.get(name);
}

/**
 * Returns a list of the properties recognized by this image. If
 * no properties are available, an empty String[] will be returned.
 *
 * @return an array of <code>String</code>s representing valid
 * property names.
 */
public String[] getPropertyNames() {
    String[] names = new String[properties.size()];
    int index = 0;
    // Enumeration e = properties.keys();
    // while (e.hasMoreElements()) {
    //     String name = (String)e.nextElement();
    //     names[index++] = name;
    // }
    properties.keySet().toArray(names);
    return names;
}

/**
 */
```

* Returns an array of `String` s recognized as names by
* this property source that begin with the supplied prefix. If
* no property names match, `null` will be returned.
* The comparison is done in a case-independent manner.
* 
* @return an array of `String` s giving the valid
* property names (can be null).
 */

```java
public String[] getPropertyNames(String prefix) {
    String[] propertyNames = getPropertyNames();
    if (propertyNames == null) {
        return null;
    }
    prefix = prefix.toLowerCase();

    List names = new ArrayList();
    for (int i = 0; i < propertyNames.length; i++) {
        if (propertyNames[i].startsWith(prefix)) {
            names.add(propertyNames[i]);
        }
    }

    if (names.size() == 0) {
        return null;
    }

    // Copy the strings from the Vector over to a String array.
    String[] prefixNames = new String[names.size()];
    //        int count = 0;
    //        for (Iterator it = names.iterator(); it.hasNext(); ) { // todo xx.toArray()
    //            prefixNames[count++] = (String)it.next();
    //        }
    names.toArray( prefixNames );

    return prefixNames;
}
```

// Utility methods.

```java
/**
 * Converts a pixel's X coordinate into a horizontal tile index
 * relative to a given tile grid layout specified by its X offset
```
public static int XToTileX(int x, int tileGridXOffset, int tileWidth) {
    x -= tileGridXOffset;
    if (x < 0) {
        x += 1 - tileWidth; // Force round to -infinity
    }
    return x/tileWidth;
}

public static int YToTileY(int y, int tileGridYOffset, int tileHeight) {
    y -= tileGridYOffset;
    if (y < 0) {
        y += 1 - tileHeight; // Force round to -infinity
    }
    return y/tileHeight;
}

public int XToTileX(int x) {
    return XToTileX(x, getTileGridXOffset(), getTileWidth());
}

public int YToTileY(int y) {
    return YToTileY(y, getTileGridYOffset(), getTileHeight());
}

/**
 * Converts a pixel's X coordinate into a horizontal tile index.
 * This is a convenience method. No attempt is made to detect
 * out-of-range coordinates.
 *
 * @param x the X coordinate of a pixel.
 * @return the X index of the tile containing the pixel.
 */
public int XToTileX(int x) {
    return XToTileX(x, getTileGridXOffset(), getTileWidth());
}

/**
 * Converts a pixel's Y coordinate into a vertical tile index.
 * This is a convenience method. No attempt is made to detect
 * out-of-range coordinates.
 *
 * @param y the Y coordinate of a pixel.
 * @return the Y index of the tile containing the pixel.
 */
public int YToTileY(int y) {
    return YToTileY(y, getTileGridYOffset(), getTileHeight());
}
* Converts a horizontal tile index into the X coordinate of its upper left pixel relative to a given tile grid layout specified by its X offset and tile width.
*/
public static int tileXToX(int tx, int tileGridXOffset, int tileWidth) {
    return tx*tileWidth + tileGridXOffset;
}

/**
* Converts a vertical tile index into the Y coordinate of its upper left pixel relative to a given tile grid layout specified by its Y offset and tile height.
*/
public static int tileYToY(int ty, int tileGridYOffset, int tileHeight) {
    return ty*tileHeight + tileGridYOffset;
}

/**
* Converts a horizontal tile index into the X coordinate of its upper left pixel. This is a convenience method. No attempt is made to detect out-of-range indices.
* @param tx the horizontal index of a tile.
* @return the X coordinate of the tile's upper left pixel.
*/
public int tileXToX(int tx) {
    return tx*tileWidth + tileGridXOffset;
}

/**
* Converts a vertical tile index into the Y coordinate of its upper left pixel. This is a convenience method. No attempt is made to detect out-of-range indices.
* @param ty the vertical index of a tile.
* @return the Y coordinate of the tile's upper left pixel.
*/
public int tileYToY(int ty) {
    return ty*tileHeight + tileGridYOffset;
}

public Vector getSources() {
    return null;
}

/**
* Returns the entire image in a single Raster. For images with multiple tiles this will require making a copy.
* <p> The returned Raster is semantically a copy. This means
* that updates to the source image will not be reflected in the
* returned Raster. For non-writable (immutable) source images,
* the returned value may be a reference to the image’s internal
* data. The returned Raster should be considered non-writable;
* any attempt to alter its pixel data (such as by casting it to
* WritableRaster or obtaining and modifying its DataBuffer) may
* result in undefined behavior. The copyData method should be
* used if the returned Raster is to be modified.
*
* @return a Raster containing a copy of this image’s data.
*/
public Raster getData() {
    Rectangle rect = new Rectangle(getMinX(), getMinY(),
        getWidth(), getHeight());
    return getData(rect);
}

/**
 * Returns an arbitrary rectangular region of the RenderedImage
 * in a Raster. The rectangle of interest will be clipped against
 * the image bounds.
 *
 * <p> The returned Raster is semantically a copy. This means
 * that updates to the source image will not be reflected in the
 * returned Raster. For non-writable (immutable) source images,
 * the returned value may be a reference to the image’s internal
 * data. The returned Raster should be considered non-writable;
 * any attempt to alter its pixel data (such as by casting it to
 * WritableRaster or obtaining and modifying its DataBuffer) may
 * result in undefined behavior. The copyData method should be
 * used if the returned Raster is to be modified.
 *
 * @param bounds the region of the RenderedImage to be returned.
 */
public Raster getData(Rectangle bounds) {
    int startX = XToTileX(bounds.x);
    int startY = YToTileY(bounds.y);
    int endX = XToTileX(bounds.x + bounds.width - 1);
    int endY = YToTileY(bounds.y + bounds.height - 1);
    Raster tile;

    if ((startX == endX) && (startY == endY)) {
        tile = getTile(startX, startY);
        return tile.createChild(bounds.x, bounds.y,
            bounds.width, bounds.height,
            bounds.x, bounds.y, null);
    }

    // Further processing...
}
} else {
    // Create a WritableRaster of the desired size
    SampleModel sm =
        sampleModel.createCompatibleSampleModel(bounds.width,
                                                    bounds.height);

    // Translate it
    WritableRaster dest =
        Raster.createWritableRaster(sm, bounds.getLocation());

    for (int j = startY; j <= endY; j++) {
        for (int i = startX; i <= endX; i++) {
            tile = getTile(i, j);
            Rectangle intersectRect =
                bounds.intersection(tile.getBounds());
            Raster liveRaster = tile.createChild(intersectRect.x,
                                                  intersectRect.y,
                                                  intersectRect.x,
                                                  intersectRect.y,
                                                  null);
            dest.setDataElements(0, 0, liveRaster);
        }
    }
    return dest;
}

/**
 * Copies an arbitrary rectangular region of the RenderedImage
 * into a caller-supplied WritableRaster. The region to be
 * computed is determined by clipping the bounds of the supplied
 * WritableRaster against the bounds of the image. The supplied
 * WritableRaster must have a SampleModel that is compatible with
 * that of the image.
 *<p>
 * @param dest a WritableRaster to hold the returned portion of
 * the image.
 * @return a reference to the supplied WritableRaster, or to a
 * new WritableRaster if the supplied one was null.
 */
public WritableRaster copyData(WritableRaster dest) {
    Rectangle bounds;
Raster tile;

if (dest == null) {
    bounds = getBounds();
    Point p = new Point(minX, minY);
    /* A SampleModel to hold the entire image. */
    SampleModel sm = sampleModel.createCompatibleSampleModel(
        width, height);
    dest = Raster.createWritableRaster(sm, p);
} else {
    bounds = dest.getBounds();
}

int startX = XToTileX(bounds.x);
int startY = YToTileY(bounds.y);
int endX = XToTileX(bounds.x + bounds.width - 1);
int endY = YToTileY(bounds.y + bounds.height - 1);

for (int j = startY; j <= endY; j++) {
    for (int i = startX; i <= endX; i++) {
        tile = getTile(i, j);
        Rectangle intersectRect =
            bounds.intersection(tile.getBounds());
        Raster liveRaster = tile.createChild(intersectRect.x,
            intersectRect.y,
            intersectRect.width,
            intersectRect.height,
            intersectRect.x,
            intersectRect.y,
            null);

        /*
         * WritableRaster.setDataElements takes into account of
         * inRaster's minX and minY and add these to x and y. Since
         * liveRaster has the origin at the correct location, the
         * following call should not again give these coordinates in
         * places of x and y.
         */
        dest.setDataElements(0, 0, liveRaster);
    }
}
return dest;
}
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*/

package org.apache.batik.ext.awt.image.codec.util;

import java.awt.image.ColorModel;
import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.io.IOException;
import java.io.OutputStream;

/**
   * A partial implementation of the ImageEncoder interface useful for
   * subclassing.
   *
   * <p><b>This class is not a committed part of the JAI API. It may
   * be removed or changed in future releases of JAI.</b></p>
   *
   * @version $Id: ImageEncoderImpl.java 498740 2007-01-22 18:35:57Z dvholten $
   */
   public abstract class ImageEncoderImpl implements ImageEncoder {

   /**
    * The OutputStream associated with this ImageEncoder.
    */
   protected OutputStream output;

   /**
    * The ImageEncodeParam object associated with this ImageEncoder.
    */
   protected ImageEncodeParam param;

   /**
    * Constructs an ImageEncoderImpl with a given OutputStream
    * and ImageEncoderParam instance.
    */
   public ImageEncoderImpl(OutputStream output,
                               ImageEncodeParam param) {
       this.output = output;
       this.param = param;
   }
public ImageEncodeParam getParam()
{
    return param;
}
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*/
package org.apache.batik.ext.awt.image.codec.util;

import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.io.IOException;
import java.io.InputStream;

/**
 * A partial implementation of the <code>ImageDecoder</code> interface
 * useful for subclassing.
 *
 * @version $Id: ImageDecoderImpl.java 498740 2007-01-22 18:35:57Z dvholten $
 */
public abstract class ImageDecoderImpl implements ImageDecoder {

/**
 * The <code>SeekableStream</code> associated with this
 * <code>ImageEncoder</code>. 
 */
protected SeekableStream input;

/**
 * The <code>ImageDecodeParam</code> object associated with this
 * <code>ImageEncoder</code>. 
 */
protected ImageDecodeParam param;

/**
 * Constructs an <code>ImageDecoderImpl</code> with a given
 * <code>SeekableStream</code> and <code>ImageDecodeParam</code>
 * instance. 
 */
public ImageDecoderImpl(SeekableStream input,
ImageDecodeParam param) {
    this.input = input;
    this.param = param;
}

/**
 * Constructs an <code>ImageDecoderImpl</code> with a given
 * <code>InputStream</code> and <code>ImageDecodeParam</code>
 * instance.  The <code>input</code> parameter will be used to
 * construct a <code>ForwardSeekableStream</code>; if the ability
 * to seek backwards is required, the caller should construct
 * an instance of <code>SeekableStream</code> and
 * make use of the other constructor.
 */
public ImageDecoderImpl(InputStream input,
    ImageDecodeParam param) {
    this.input = new ForwardSeekableStream(input);
    this.param = param;
}

/**
 * Returns the current parameters as an instance of the
 * <code>ImageDecodeParam</code> interface.  Concrete
 * implementations of this interface will return corresponding
 * concrete implementations of the <code>ImageDecodeParam</code>
 * interface.  For example, a <code>JPEGImageDecoder</code> will
 * return an instance of <code>JPEGDecodeParam</code>.
 */
public ImageDecodeParam getParam() {
    return param;
}

/**
 * Sets the current parameters to an instance of the
 * <code>ImageDecodeParam</code> interface.  Concrete
 * implementations of <code>ImageDecoder</code> may throw a
 * <code>RuntimeException</code> if the <code>param</code>
 * argument is not an instance of the appropriate subclass or
 * subinterface.  For example, a <code>JPEGImageDecoder</code>
 * will expect <code>param</code> to be an instance of
 * <code>JPEGDecodeParam</code>.
 */
public void setParam(ImageDecodeParam param) {
    this.param = param;
}

/**
 * Returns the <code>SeekableStream</code> associated with
public SeekableStream getInputStream() {
    return input;
}

/**
 * Returns the number of pages present in the current stream.
 * By default, the return value is 1. Subclasses that deal with
 * multi-page formats should override this method.
 */
public int getNumPages() throws IOException {
    return 1;
}

/**
 * Returns a Raster that contains the decoded
 * contents of the SeekableStream associated
 * with this ImageDecoder. Only
 * the first page of a multi-page image is decoded.
 */
public Raster decodeAsRaster() throws IOException {
    return decodeAsRaster(0);
}

/**
 * Returns a Raster that contains the decoded
 * contents of the SeekableStream associated
 * with this ImageDecoder. The given page of a multi-page image is decoded. If
 * the page does not exist, an IOException will be thrown.
 * Page numbering begins at zero.
 * @param page The page to be decoded.
 */
public Raster decodeAsRaster(int page) throws IOException {
    RenderedImage im = decodeAsRenderedImage(page);
    return im.getData();
}

/**
 * Returns a RenderedImage that contains the decoded
 * contents of the SeekableStream associated
 * with this ImageDecoder. Only
 * the first page of a multi-page image is decoded.
 */
public RenderedImage decodeAsRenderedImage() throws IOException {
    return decodeAsRenderedImage(0);
/**
 * Returns a `<code>RenderedImage</code>` that contains the decoded
 * contents of the `<code>SeekableStream</code>` associated
 * with this `<code>ImageDecoder</code>.
 * The given page of a multi-page image is decoded. If
 * the page does not exist, an IOException will be thrown.
 * Page numbering begins at zero.
 *
 * @param page The page to be decoded.
 */
public abstract RenderedImage decodeAsRenderedImage(int page)
throws IOException;

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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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1.1376 expression 3.0.7.RELEASE

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  * case ""
  * case "\"
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() [] {}  

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* // brackets must be in pairs
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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
  jar/org/springframework/expression/spel/ast/AstUtils.java

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" +

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* * http

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case '[': case '(': 

Found in path(s):
* case '{'

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  jar/org/springframework/expression/spel/support/StandardEvaluationContext.java

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"foo${expr0}bar${expr1}". The static
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  jar/org/springframework/expression/spel/SpelEvaluationException.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
  jar/org/springframework/expression/spel/SpelParseException.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
  jar/org/springframework/expression/ParserContext.java
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case ']
 case ')

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* case ')
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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1.jar/org/springframework/expression/spel/ast/ModelIndexer.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1.jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1.jar/org/springframework/expression/spel/support/PropertyOrFieldReference.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1.jar/org/springframework/expression/spel/ast/ConstructorReference.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1.jar/org/springframework/expression/spel/ast/InlineList.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1.jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1.jar/org/springframework/expression/spel/ast/IntLiteral.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1.jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1.jar/org/springframework/expression/spel/support/StandardTypeConverter.java
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* * Bracket is used to describe
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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/common/LiteralExpression.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/InternalParseException.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/OperatorPower.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/OpMultiply.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/ast/Identifier.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
1.1377 tcpdump 4.1.1

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1.1386 jetty-http 8.1.15.v20140411

1.1387 wpa_supplicant 2.1-devel
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3378__patchen__Rhino_03.wav
3258__Jovica__Dronetail_02.wav
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/* zlib.h -- interface of the 'zlib' general purpose compression library  version 1.2.5, April 19th, 2010 */
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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1.1401 python 2.7.5 76.el7

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnrri.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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********************

History of the software
========================

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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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Mersenne Twister

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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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Sockets
------

The `mod:` socket` module uses the functions, `func:` getaddrinfo`, and
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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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Execution tracing

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UUencode and UUdecode functions

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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

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* /opt/cola/permits/1112383674_1607076863.4/0/google-http-client-1-19-0-sources-1-jar/com/google/api/client/http/apache/ApacheHttpRequest.java
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* /opt/cola/permits/1112383674_1607076863.4/0/google-http-client-1-19-0-sources-1-jar/com/google/api/client/http/LowLevelHttpRequest.java
* /opt/cola/permits/1112383674_1607076863.4/0/google-http-client-1-19-0-sources-1-jar/com/google/api/client/http/apache/ContentEntity.java
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* /opt/cola/permits/1112383674_1607076863.4/0/google-http-client-1-19-0-sources-1-jar/com/google/api/client/util/ArrayMap.java
* /opt/cola/permits/1112383674_1607076863.4/0/google-http-client-1-19-0-sources-1-jar/com/google/api/client/util/DataMap.java

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* /opt/cola/permits/1112383674_1607076863.4/0/google-http-client-1-19-0-sources-1-
  jar/com/google/api/client/testing/http/FixedClock.java
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  jar/com/google/api/client/util/ObjectParser.java
* /opt/cola/permits/1112383674_1607076863.4/0/google-http-client-1-19-0-sources-1-
  jar/com/google/api/client/util/LoggingByteArrayOutputStream.java
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  jar/com/google/api/client/testing/http/javanet/package-info.java
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  jar/com/google/api/client/util/LoggingOutputStream.java
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  jar/com/google/api/client/util/ByteArrayStreamingContent.java
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jar/com/google/api/client/util/Maps.java
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jar/com/google/api/client/testing/util/MockBackOff.java
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jar/com/google/api/client/http/HttpIOExceptionHandler.java
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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
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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 file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
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1.1411 gobject-introspection 1.50.0 1.el7
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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.

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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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"Source code" for a work means the preferred form of the work for
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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

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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>
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Felix Domke <stmbinc@elitedvb.net>
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...and all the other dbox2 people
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for many bugfixes

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for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

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for his work on the budget drivers, the demux code,
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for his work on calculating and checking the crc's for the
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for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

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for tuning/DiSEqC support for the DEC 3000-s
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for the IR code for the ttusb-dec driver

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for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <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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*
* M. Welsh, 6 July 1996
*
* /

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* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-
Found in path(s):
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/PendingWriteQueue.java

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* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/local/LocalServerChannel.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/oio/package-info.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/oio/ChannelInputShutdownEvent.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/nio/package-info.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/VoidChannelPromise.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/nio/package-info.java

jar/io/netty/channel/socket/package-info.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/ChannelInboundHandler.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/EventLoop.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/ChannelGroupFuture.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/DefaultChannelPromise.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/FileRegion.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/EventLoopException.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/bootstrap/package-info.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/DefaultChannelConfig.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/SocketChannel.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/SocketChannel.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/SocketChannel.java
* /opt/cola/permits/1111298323_1606896124.61/0/netty-transport-4-0-27-final-sources-jar/io/netty/channel/socket/SocketChannel.java
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  jar/io/netty/channel/DefaultChannelHandlerContext.java

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Manifest-Version: 1.0
Export-Package: io.netty.bootstrap;uses:="io.netty.channel,io.netty.util-
  it",version="4.0.27.Final",io.netty.channel;uses:="io.netty.buffer,io
  .netty.util,io.netty.util.concurrent";version="4.0.27.Final",io.netty
  .channel.embedded;uses:="io.netty.channel";version="4.0.27.Final",io.0
  .netty.channel.embedded;uses:="io.netty.channel";version="4.0.27.Final",io.
  netty.channel.group;uses:="io.netty.channel,io.netty.util.concurrent";
  version="4.0.27.Final",io.netty.channel.local;uses:="io.netty.channe
  l,io.netty.util.concurrent";version="4.0.27.Final",io.netty.channel.nio;
  uses:="io.netty.buffer,io.netty.channel,io.netty.util,io.netty.util.con
  current";version="4.0.27.Final",io.netty.channel.socket.nio;uses:="io.n
 etty.buffer,io.netty.channel,io.netty.channel.nio,io.netty.channel.socket";
  version="4.0.27.Final",io.netty.channel.socket.nio;uses:="io.netty.buffer,io
  .netty.channel,io.netty.channel.socket.nio,io.netty.channel.socket";
  version="4.0.27.Final"
Built-By: norman
Tool: Bnd-2.1.0.20130426-122213
Bundle-Name: Netty/Transport
Created-By: Apache Maven Bundle Plugin
Bundle-Vendor: The Netty Project
Build-Jdk: 1.7.0_75
Bundle-Version: 4.0.27.Final
Bnd-LastModified: 1427990904315
Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

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Handles or intercepts a \@link ChannelInboundInvoker\} or \@link ChannelOutboundInvoker\} operation, and forwards it to the next handler in a \@link ChannelPipeline\}.

But the most useful for developers may be:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} handles and intercepts inbound operations</li>
* <li>{@link ChannelOutboundHandlerAdapter} handles and intercepts outbound operations</li>
* </ul>

* You will also find more detailed explanation from the documentation of each sub-interface on how an event is interpreted when it goes upstream and downstream respectively.

* <h3>The context object</h3>

* 

* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the {@link ChannelPipeline} it belongs to via a context object. Using the context object, the {@link ChannelHandler} can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using {@link AttributeKey}s) which is specific to the handler.

* <h3>State management</h3>

* 

* A {@link ChannelHandler} often needs to store some stateful information. The simplest and recommended approach is to use member variables:

* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     
*     private boolean loggedIn;
*     
*     @Override
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         @link Channel ch = e.getChannel();
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;
*         } else (message instanceof GetDataMessage) {
*             if (loggedIn) {
*                 ch.write(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}@{Channel}
* {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
* </pre>
*<h4>Using {@link AttributeKey}</h4>
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
* @Sharable
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}@Message
* {
*     private final {@link AttributeKey}@Boolean auth =
*         {AttributeKey.valueOf("auth")};
* }
* @Override
* public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*     {Attribute}@Boolean attr = ctx.attr(auth);
*     {Channel} ch = ctx.channel();
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) o);
*         attr.set(true);
*     } else (message instanceof GetDataMessage) {
*         if (Boolean.TRUE.equals(attr.get())) {
*             ch.write(fetchSecret((GetDataMessage) o));
*         } else {
*             fail();
*         }
*     }
* ...
* }
Now that the state of the handler is attached to the \{@link ChannelHandlerContext\}, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends \{@link ChannelInitializer\}\{\{@link Channel\}\{ {
    private static final DataServerHandler \texttt{SHARED} = new DataServerHandler();

    \texttt{@code @Override}
    public void initChannel(\texttt{@link Channel\} channel) {
        channel.pipeline().addLast(\"handler\", \texttt{SHARED});
    }
}
```

The \texttt{\@Sharable} annotation

In the example above which used an \texttt{\@link AttributeKey\}, you might have noticed the \texttt{\@code @Sharable\} annotation.

If a \texttt{\@link ChannelHandler\} is annotated with the \texttt{\@code @Sharable\} annotation, it means you can create an instance of the handler just once and add it to one or more \texttt{\@link ChannelPipeline\}s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like a [http://www.javaconcurrencyinpractice.com/annotations/doc/](http://www.javaconcurrencyinpractice.com/annotations/doc/) the JCIP annotations.

Additional resources worth reading

Please refer to the \texttt{\@link ChannelHandler\}, and \texttt{\@link ChannelPipeline\} to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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  jar/org/apache/xerces/impl/xs/opti/ElementImpl.java
* /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/dom/NodeListCache.java
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  jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/jaxp/validation/EmptyXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/jaxp/validation/XMLSchemaFactory.java

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  jar/org/apache/xerces/jaxp/validation/EmptyXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/jaxp/validation/XMLSchemaFactory.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHandlerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultAugmentor.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java

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* /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/parsers/XPointerParserConfiguration.java
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  jar/org/apache/xerces/parsers/XMLDocumentParser.java
* /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/dv/xs/QNameDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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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/implementations/XMLNamespaceBinder.java

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* /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
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLDTDDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XSGrammar.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/IntegerDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/NSItemListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/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
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  jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
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  jar/org/apache/xerces/dom/ChildNode.java
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  jar/org/apache/xerces/util/NamespaceSupport.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/xx/SchemaNamespaceSupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/util/SymbolTable.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/AttributePSVImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/xsd/XMLSchemaValidator.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/Augmentations.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/xni/parser/XMLComponentManager.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-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/impl/xs/util/StringListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSObjectListImpl.java
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  jar/org/w3c/dom/html/HTMLDOMImplementation.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>MODEASYNCHRONOUS</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>MODEASYNCHRONOUS</code> then the
 *    <code>LSParser</code> that is created will operate in asynchronous
 *    mode.
 * @param schemaType  An absolute URI representing the type of the schema
 * language used during the load of a <code>Document</code> using the
 * newly created <code>LSParser</code>. Note that no lexical checking
 * is done on the absolute URI. In order to create a
 * <code>LSParser</code> for any kind of schema types (i.e. the
 * LSParser will be free to use any schema found), use the value
 * <code>null</code>.
*/

* applications must use the value
* <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
* applications must use the value
* <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
* are outside the scope of the W3C and therefore should recommend an
* absolute URI in order to use this method.

@return The newly created <code>LSParse</code> object. This
* <code>LSParse</code> is either synchronous or asynchronous
* depending on the value of the <code>mode</code> argument.
* By default, the newly created <code>LSParse</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>LSParse</code> contains a
* reference to the default error handler.

@exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xx/opti/DefaultText.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xx/traversers/XSAbstractIDConstraintTraverser.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/xx/models/XSEmptyCM.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xx/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-jar/org/apache/xerces/util/ErrorHandlerWrapper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DTDConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xx/models/CMBuilder.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIAttrNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIElementNSImpl.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11DTDConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSDouble.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/YearMonthDurationDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/ObjectList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSFloat.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/ByteList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSDateTime.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/HTTPInputSource.java
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* /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
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  jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
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  jar/org/apache/xerces/impl/dv/xs/TimeDV.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/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/util/XSGrammarPool.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/LSInputList.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/XSNamespaceItemList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces(xs/ItemPSVI.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(xs/PSVIPROVIDER.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces(xs/XSLIMPLEMENTATION.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces(xs/ITEMPSVI.java
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- /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/wml/WMLStrongElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLEmElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSelectElement.java
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* /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/WMLCardElement.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLFieldsetElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSetvarElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTemplateElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDOMImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLGoElement.java
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  * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/BaseDVFactory.java
  * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/SimpleLocator.java
  * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSDDescription.java
  * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLResourceIdentifierImpl.java
  * /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/FullDVFactory.java

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  jar/org/apache/xerces/impl/xpath/regex/RegularExpression.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/dv/dtd/NMTOKENDatatypeValidator.java
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  jar/org/apache/xerces/impl/xs/models/XSCMLeaf.java
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  jar/org/apache/xerces/dom/CoreDocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/dom/TextImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xx/XSAttributeDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xx/XSElementDeclaration.java
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*/
jar/org/apache/xerces/xs/XSModelGroupDefinition.java
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History:
Date       Who                What
28oct1999 dl Created
14dec1999 dl jmm snapshot
19apr2000 dl use barrierLock
12jan2001 dl public release
17nov2001 dl Minor tunings
20may2002 dl BarrierLock can now be serialized.
09dec2002 dl Fix interference checks.
*/

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  jar/org/apache/xmlbeans/impl/common/ConcurrentReaderHashMap.java
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* specification</a> for information on the UPA rule.
*
* @see XmlBeans#compileXsd
*/

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1.1442 ncurses 5.7

1.1442.1 Available under license:
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile: txtmode file-encoding=utf-8

1.1443 openssh 5.6p1

1.1443.1 Available under license :

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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_
#endif
#endif

#ifdef COMPAT_POLL_H_
#define COMPAT_POLL_H_
#endif

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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 POLLRNDMOPOLLRDNDNORM
    #define POLLWNRD NORM  POLLOUT
    #define POLLWRD BAND 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
- The make-ssh-known-hosts script is no longer included
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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
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#if defined 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 */

1.1444 spring-framework 3.1.4.RELEASE

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* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/type/classreading/AnnotationAttributesReadingVisitor.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/io/AbstractResource.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/io/VfsResource.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/io/Resource.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/env/ConfigurableEnvironment.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/io/ClassPathResource.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/convert/Property.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/io/ClassPathStringMatcher.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/io/AntPathStringMatcher.java
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* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/io/PropertyPlaceholderHelper.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/io/PropertyEditor.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/io/ResourceLoader.java
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* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/io/Resources.class
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/io/Resource铮
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jar/org/springframework/core/type/classreading/SimpleMetadataReader.java
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* /opt/cola/permits/1136046023_161364919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/io/support/PropertiesLoaderSupport.java
* /opt/cola/permits/1136046023_161364919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/MethodParameter.java
* /opt/cola/permits/1136046023_161364919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/annotation/AnnotationUtils.java
* /opt/cola/permits/1136046023_161364919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/io/UrlResource.java
* /opt/cola/permits/1136046023_161364919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/env/PropertySourcesPropertyResolver.java
* /opt/cola/permits/1136046023_161364919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/util/xml/StaxEventContentHandler.java
* /opt/cola/permits/1136046023_161364919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/env/AbstractEnvironment.java
* /opt/cola/permits/1136046023_161364919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/env/MutablePropertySources.java
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* /opt/cola/permits/1136046023_161364919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/io/FileSystemResource.java
* /opt/cola/permits/1136046023_161364919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/env/CompositePropertySource.java

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  jar/org/springframework/util/comparator/NullSafeComparator.java
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* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/convert/ConversionException.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/serializer/support/SerializationFailedException.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/serializer/support/SerializingConverter.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/serializer/DefaultDeserializer.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/serializer/Serializer.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/util/xml/AbstractStaxContentHandler.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/util/WeakReferenceMonitor.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/util/TypeUtils.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/convert/ConverterNotFoundException.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/serializer/support/DeserializingConverter.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/util/xml/StaxEventXMLReader.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/utils/StopWatch.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/utils/TypeUtils.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/utils/ObjectUtils.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/convert/ConverterSupplier.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/convert/support/ConversionService.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/convert/support/ConversionServiceAware.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/convert/support/ConversionServiceSupport.java
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* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/convert/support/ConversionServiceSupportAwareSupport.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/convert/support/ConversionServiceSupportAwareSupportAware.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/convert/support/ConversionServiceSupportAwareSupportAwareSupport.java
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  jar/org/springframework/core/ParameterNameDiscoverer.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/io/InputStreamResource.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/AttributeAccessor.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/SpringVersion.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/io/support/LocalizedResourceHelper.java
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* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files

GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code

SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path

LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name

LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options

LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

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

## Dependency rules

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

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

## Versioned libraries rules

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

## End FreeBSD-specific setup

**1.1448 postfix 2.10.1 6.el7**

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1.1453 commons-digester 1.7
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jar/org/apache/commons/digester/package.html
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jar/org/apache/commons/digester/xmlrules/package.html
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jar/org/apache/commons/digester/plugins/package.html
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jar/org/apache/commons/digester/parser/package.html
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- javaee_web_services_client_1_2.xsd
- javae_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javae_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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1.1467 commons-digester 1.8

1.1468 commons-discovery 0.2
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  jar/org/apache/commons/discovery/tools/PropertiesHolder.java
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  jar/org/apache/commons/discovery/tools/DiscoverClass.java
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  jar/org/apache/commons/discovery/tools/ClassUtils.java
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  jar/org/apache/commons/discovery/ResourceClassIterator.java
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  jar/org/apache/commons/discovery/resource/names/DiscoverNamesInDictionary.java
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jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java

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  jar/org/springframework/expression/spel/ast/FormatHelper.java
* /opt/cola/permits/1136045475_1613664806.4/0/spring-expression-3-1-4-release-sources-1-
  jar/org/springframework/expression/spel/TypedValue.java
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  jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
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  jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
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END OF TERMS AND CONDITIONS

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

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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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single nxt200x frontend driver.

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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
 * used by the jpegtran sample application. These are NOT part of the core
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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. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
* 
* We also provide FDCT routines with various input sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
* 
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
* 
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers (pass 2) and/or final/initial
* shifting.
* 
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

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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.
*/

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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.
*/

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.

/*
* 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 ordinarystdio 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).
*/

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.
 */

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 * Cr
 * G = Y + K2 * Cb + K3 * Cr
 * B = Y + K4 * Cb
 * only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
* 
* This file currently provides implementations for the following cases:
* 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
==============================================

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 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.

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

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

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

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "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,
it's 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
Open Source Used In Finesse Software 12.6(1)  14087

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
A PDF file of the older JFIF document is available at

The TIFF 6.0 file format specification can be obtained by FTP from
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from
http://www.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

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

The JPEG FAQ (Frequently Asked Questions) article is a source of some
general information about JPEG.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

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 ijb.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")
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.
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/*
 * 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 pmnconvol). When
 * enabled, each input pixel P is replaced by a weighted sum of itself and its
 * eight neighbors. P's weight is 1-8*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/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed RLE format).
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatadst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

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

/*
 * 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.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jversion.h
No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options]  inputfile outputfile
 * cjpeg [options]  [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * cjpeg [options]  -outfile outputfile  inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cjpeg.c
No license file was found, but licenses were detected in source scan.

MATCHED_PATHS
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdatadst.c
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jversion.h
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cjpeg.c
* 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_PTRS 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

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.
jpegin.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. (cjpeg/djpeg/etc do use jinclud.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 jinclud.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.
jcecofct.c: Buffer controller for DCT coefficient buffer.
jcolor.c: Color space conversion.
jscample.c: Downsampling.
jdctmrg.c: DCT manager (DCT implementation selection & control).
jdctint.c: Forward DCT using slow-but-accurate integer method.
jdctfst.c: Forward DCT using faster, less accurate integer method.
jdctflt.c: Forward DCT using floating-point arithmetic.
chuff.c: Huffman entropy coding.
jarith.c: Arithmetic entropy coding.
jmarker.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.
jdmaintct.c: Main buffer controller (JPEG decompressor => postprocessor).
jdcofct.c: Buffer controller for DCT coefficient buffer.
jdpostct.c: Postprocessor buffer controller.
jdmaker.c: JPEG marker reading.
jdhuff.c: Huffman entropy decoding.
jarith.c: Arithmetic entropy decoding.
jdctmgr.c: IDCT manager (IDCT implementation selection & control).
jdctint.c: Inverse DCT using slow-but-accurate integer method.
jdctfst.c: Inverse DCT using faster, less accurate integer method.
jdctflt.c: Inverse DCT using floating-point arithmetic.
jdsample.c: Upsampling.
jcolor.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.

CJP EG/DJPEG/ J PEGTRAN

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

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.
cderror.h Additional error and trace message codes for cjpeg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.
djpeg.c Main program for djpeg.
jpegtran.c Main program for jpegtran.
cdjpeg.c Utility routines used by all three programs.
rdcolmap.c Code to read a colormap file for djpeg's "-map" switch.
rdswitch.c Code to process some of cjpeg's more complex switches.
Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:
Image file writer modules for djpeg:

wrbmp.c	BMP file output.
wrgif.c	GIF file output (a mere shadow of its former self).
wrppm.c	PPM/PGM file output.
wrle.c	Utah RLE file output.
wrtsau.c	Targa file output.

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.
jconf* Sample jconfig.h for particular systems.
libjpeg.map Script to generate shared library with versioned symbols.
libjpeg.pc.in libjpeg.pc pkg-config file input for configure.
aclocal.m4 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.

IJJ 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 IJJ 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
压缩通常不太时敏。应该理解的是，低质量模式可能不满足JPEG标准的精确性要求；尽管如此，它们对观众仍然是有用的。

*** Portability issues ***

可移植性是库的必要要求。显示系统架构方面的关键可移植性问题是：

1. 内存使用。我们要让代码能够在具有有限内存的PC级机器上运行。因此，图像应按条带顺序进行处理，以避免一次性将整个图像存储在内存中。如果需要整个图像缓冲区，则应能够使用虚拟内存或临时文件。

2. 近/远指针区分。为了在80x86机器上高效运行，代码应区分“小”对象（保存在近数据空间）和“大”对象（保存在远数据空间）。这是一个令人讨厌的限制，但幸运的是，它不影响其它更聪明的机器的质量，源代码的混乱程度随使用足够类型的指针而减少。

3. 数据精度。我们假设“char”至少是8位，“short”和“int”至少是16位，“long”至少是32位。代码将正常工作，尽管内存可能在某些情况下被不高效地使用。然而，JPEG压缩后的数据流必须最终以8位字节序列在外部存储上出现，以符合标准。这可能在char更宽于8位的机器上成为一个问题。库用typedef JOCTET表示压缩数据。如果没有确切8位的数据类型可用，自定义数据源和数据目标模块必须被编写以解压缩和打包选择的JOCTET数据类型。

*** System overview ***

压缩器和解压缩器被分为两个主要部分：JPEG压缩器或解压缩器，以及预处理或后处理函数。这些部分之间的接口是官方JPEG规范视作输入或输出的图像数据：此数据是用于压缩的颜色空间，并且是向下采样到要使用的采样因素。预处理和后处理步骤负责将正常图像表示转换为或从这种形式。少数几个应用程序可以跳过预处理或后处理步骤。

从更近的角度来看，压缩器库包含以下主要
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 downscaled data must
provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing
steps, many of which have several possible behaviors. To avoid cluttering the
code with lots of switch statements, we use a simple form of object-style
programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented
as two separate modules that present the same external interface; at runtime,
the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C.
The basic tool is a function pointer. An "object" is just a struct
containing one or more function pointer fields, each of which corresponds to
a method name in real object-oriented languages. During initialization we
fill in the function pointers with references to whichever module we have
determined we need to use in this run. Then invocation of the module is done
by indirecting through a function pointer; on most machines this is no more
expensive than a switch statement, which would be the only other way of
making the required run-time choice. The really significant benefit, of
course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different
implementations of the same kind of object. We do this by making all the
module-specific object structs be separately allocated entities, which will
be accessed via pointers in the master compression or decompression struct.
The "public" fields or methods for a given kind of object are specified by
a commonly known struct. But a module's initialization code can allocate
a larger struct that contains the common struct as its first member, plus
additional private fields. With appropriate pointer casting, the module's
internal functions can access these private fields. (For a simple example,
see jdatadst.c, which implements the external interface specified by struct
jpeg_destination_mgr, but adds extra fields.)
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

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>------------------ controller ------------------</td>
<td></td>
</tr>
</tbody>
</table>

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 --|
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:

```
|--- Main controller --|
    |--- Coefficient controller --|
    |                            |--- Dequantize, Inverse DCT
    |        |--- 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.

* Color space conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.
* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.
The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use.

The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times
without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

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 
quantiization 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 (i.e., the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or
decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Notes: 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_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.

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/*@
jcmainct.c
*/

/*
Copyright (C) 1994-1996, Thomas G. Lane.
Modified 2003-2012 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.
*/

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jidctint.c
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*/

/*
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):
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/*
 * 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.
*/

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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.
 */

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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
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdsample.c
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/*
* 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, djjpeg, 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
* cjjpeg and djjpeg. 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.

/*
 * 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/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdcoefct.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.

/*
* 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/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 PBMPLUS library is NOT required to compile this software (but it is highly useful as a set of PPM image manipulation programs).

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to an ordinary stdio stream.

Found in path(s):

/o/task/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):

/o/task/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 ppmtogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.  
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/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.

TABLE OF CONTENTS
-----------------

Before you start
Configuring the software:
  using the automatic "configure" script
  using one of the supplied jconfig and makefile files
  by hand
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
./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.manx jconfig.manx, Manx Aztec C
makefile.sas jconfig.sas, SAS C
makeproj.mac jconfig.mac, Macintosh, Metrowerks CodeWarrior
mak*jpeg.st jconfig.st, ST/STE/TT, Pure C or Turbo C
makefile.bcc jconfig.bcc, MS-DOS or OS/2, Borland C
makefile.dj jconfig.dj, DJGPP (Delorie's port of GNU C)
makefile.mc6 jconfig.mc6, Microsoft C (16-bit only)
makefile.wat jconfig.wat, MS-DOS, OS/2, or Windows NT, Watcom C
makefile.vc jconfig.vc, MS Windows, MS Visual C++
mak*jpeg.st jconfig.st, Atari ST/STE/TT, Pure C or Turbo C
makefile.mms jconfig.mms, VMS, with MMS software
makefile.vms jconfig.vms, VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or
whatever your system uses as the standard makefile name). For more info see
the appropriate system-specific hints section near the end of this file.

Configuring the software by hand
--------------------------------

First, generate a jconfig.h file. If you are moderately familiar with C,
the comments in jconfig.txt should be enough information to do this; just
copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may
prefer to use the ckconfig.c program. You will need to compile and execute
ckconfig.c by hand --- we hope you know at least enough to do that.
ckconfig.c may not compile the first try (in fact, the whole idea is for it
to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

- makefile.ansi: if your C compiler supports function prototypes
- makefile.unix: if not.

(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style

These programs can use a Unix-like command line style which supports redirection and piping, like this:

cjpeg inputfile >outputfile
cjpeg <inputfile >outputfile
source program | cjpeg >outputfile

The simpler "two file" command line style is just
cjpeg inputfile outputfile
You may prefer the two-file style, particularly if you don't have pipes.
You MUST use two-file style on any system that doesn't cope well with binary
data fed through stdin/stdout; this is true for some MS-DOS compilers, for
example. If you're not on a Unix system, it's safest to assume you need
two-file style. (But if your compiler provides either the Posix-standard
fdopen() library routine or a Microsoft-compatible setmode() routine, you
can safely use the Unix command line style, by defining USE_FDOPEN or
USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
--------------------------

The IJG code is capable of working on images that are too big to fit in main
memory; data is swapped out to temporary files as necessary. However, the
code to do this is rather system-dependent. We provide five different
memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(),
  which not all non-ANSI systems have. On some systems
  tmpfile() may put the temporary file in a non-optimal
  location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything
  except a Unix machine, you'll need to configure the
  select_file_name() routine appropriately; see the comments
  near the head of jmemname.c. If you use this version, define
  NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files
  are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-). This will compile on
  almost any system, but it assumes you have enough main memory
  or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers.
  See the system-specific notes about MS-DOS for more info.
  IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in
  jconfig.h, and include the assembly file jmemdosa.asm in the
  programs. The supplied makefiles and jconfig files for
  16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific
  notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your
makefile to equal the corresponding object file name (for example, jmemansi.o
or jmemansi.obj for jmemansi.c).
If you have plenty of (real or virtual) main memory, just use jmemnobs.c. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion. If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmenname.c; be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
=====================

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE
As a quick test of functionality we've included a small sample image in several forms:

testorig.jpg  Starting point for the djpeg tests.
testimg.ppm  The output of djpeg testorig.jpg
testimg.bmp  The output of djpeg -bmp -colors 256 testorig.jpg
testimg.jpg  The output of cjjpeg testimg.ppm
testprog.jpg  Progressive-mode equivalent of testorig.jpg.
testimgp.jpg  The output of cjjpeg -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 cjjpeg 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 cjjpeg 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 "djpeg <testorig.jpg >out.ppm" as from "djpeg -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_FDOOPEN 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 "djpeg -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
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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
To enable RLE support:

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 djjpeg to keep around. But hopefully you won't need it for very long.
Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have
it stored in some other, nonstandard format. In that case you'll probably
want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If
you selected more than 8-bit data precision, cjpeg uses arithmetic coding
by default. The Huffman encoder normally uses entropy optimization to
compute usable tables for higher precision. Otherwise, you'll have to
supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional
functions can be removed at compile time. See the xxx_SUPPORTED #defines in
jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in
decoder support for all valid JPEG files, to ensure that you can read anyone's
output. Taking out support for image file formats that you don't use is the
most painless way to make the programs smaller. Another possibility is to
remove some of the DCT methods: in particular, the "IFAST" method may not be
enough faster than the others to be worth keeping on your machine. (If you
do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST
to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
============

Unless you own a Cray, you'll probably be interested in making the JPEG
software go as fast as possible. This section covers some machine-dependent
optimizations you may want to try. We suggest that before trying any of
this, you first get the basic installation to pass the self-test step.
Repeat the self-test after any optimization to make sure that you haven't
broken anything.

The integer DCT routines perform a lot of multiplications. These
multiplications must yield 32-bit results, but none of their input values
are more than 16 bits wide. On many machines, notably the 680x0 and 80x86
CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32
bit multiply. Unfortunately there is no portable way to specify such a
multiplication in C, but some compilers can generate one when you use the
right combination of casts. See the MULTIPLYxxx macro definitions in
jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits,
defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS
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We welcome reports on changes needed for systems not mentioned here. Submit '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 '.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 cjpeg.prj and djpeg.prj. Or if you don't have a
coprocessor, you may prefer to remove the float DCT code by undefining
DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float
code will be too slow to be useful). In that case, you can delete
pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp,
or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom.
Those source files should just be compiled by themselves; they don't
depend on the JPEG library. You can use the default.prj project file
of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the
space used by temporary files created with "tmpfile()" not to be freed after
an abnormal program exit. If you check your disk afterwards, you will find
cluster chains that are allocated but not used by a file. This should not
happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly
close temp files before exiting. But if you use the JPEG library with your
own code, be sure to supply a signal catcher, or else use a different
system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a
compiler bug in old versions of Cray's Standard C (prior to 3.1). If you
still have an old compiler, you'll need to insert a line reading
"#pragma novector" just before the loop
   for (i = 1; i <= (int) htbl->bits[l]; i++)
      huffsize[p++] = (char) l;
in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).
   [This bug may or may not still occur with the current IJG code, but it's
   probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler,
you should run the compiler in ANSI mode. If using the configure script,
say
   ./configure CC='cc -Aa'
(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add
"-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler
delivered with a minimum HP-UX system, then you must use makefile.unix
(and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the command() 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_FOPEN 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_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.
MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout. See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#'" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work.

(fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work.

(fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "$(RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.
Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:
/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far
Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/#endif" around the line "#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().
A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "\%s\n", buffer);
(in output_message in jerror.c) with
MessageBox(SetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise
error messages will disappear into nowhere. (Beginning with IJG v6b, this
code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in
jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling
application after a library error. This can be done with the setjmp/longjmp
technique discussed in libjpeg.txt and illustrated in example.c. (NOTE:
some older Windows C compilers provide versions of setjmp/longjmp that
don't actually work under Windows. You may need to use the Windows system
functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words,
let Windows do any virtual memory management needed. You should NOT use
jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model;
for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS
sections above for more info about memory models.) In the 16-bit memory
models only, you'll need to put
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd
have to use huge memory model, which slows things down unnecessarily.)
jmemnobs.c works without modification in large or flat memory models, but to
use medium model, you need to modify its jpeg_get_large and jpeg_free_large
routines to allocate far memory. In any case, you might like to replace
its calls to malloc and free with direct calls on Windows memory allocation
functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file
operations rather than fread/fwrite. This is only necessary if your C
compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library
will accept or deliver color pixels in BGR sample order, not RGB; BGR order
is usually more convenient under Windows. Note that this change will break
the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably
straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use
large model, or even better, 32-bit flat model. Many places in the IJG code
assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:

```
#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type,methodname,arglist) type (_far _pascal *methodname) arglist
```

For a 32-bit DLL you may want something like

```
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) 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 jmemmobs.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/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/install.txt
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/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/djpeg.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/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

#ifndef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
#endif
which is used like this:

```c
struct function_pointers {
  JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
  JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the `sizeof()` operator is defined to return `int`, yet `size_t` is defined as `long`. Needless to say, this is brain-damaged. Always use the `SIZEOF()` macro in place of `sizeof()`, so that the result is guaranteed to be of type `size_t`.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.
2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.
3. Don't use global variables; anything that must be used in another module should be in the common data structures.
4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).
5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep
compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/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 (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.
*/
#endif /* JPEG_CJPEG_DJPEG */

/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED	/* BMP image file format */
#define GIF_SUPPORTED	/* GIF image file format */
#define PPM_SUPPORTED	/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED	/* Utah RLE image file format */
#define TARGA_SUPPORTED	/* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen("rb") or fopen("wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE
/* Define this if you want percent-done progress reports from cjpeg/djpeg.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/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 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/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
*
* 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/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmarker.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to decode JPEG datastream markers.
 * Most of the complexity arises from our desire to support input
 * suspension: if not all of the data for a marker is available,
 * we must exit back to the application. On resumption, we reprocess
 * the marker.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmarker.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.
 */
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.
 */

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 stdout stream.
 * 
 * Based on code contributed by Lee Daniel Crocker.
 */

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.
**
** 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/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.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cderror.h
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.
The 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
Basic library usage:
Data formats
Compression details
Decompression details
Mechanics of usage: include files, linking, etc
Advanced features:
Compression parameter selection
Decompression parameter selection
Special color spaces
Error handling
Compressed data handling (source and destination managers)
I/O suspension
Progressive JPEG support
Buffered-image mode
Abbreviated datastreams and multiple images
Special markers
Raw (downsampled) image data
Really raw data: DCT coefficients
Progress monitoring
Memory management
Library compile-time options
Portability considerations
Notes for MS-DOS implementors

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

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform
newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

image_widthWidth of image, in pixels
image_heightHeight of image, in pixels
input_componentsNumber of color channels (samples per pixel)
in_color_spaceColor space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source
array containing 3-byte RGB pixels:

JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}

jpeg_write_scanlines() returns the number of scanlines actually written.
This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call
jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.
Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
```
} jpeg_stdio_src(&cinfo, infile);

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.
jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width  image width and height, as scaled
output_height
out_color_components  # of color components in out_color_space
output_components  # of color components returned per pixel
colormap  the selected colormap, if any
actual_number_of_colors  number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.
Typically you will need to allocate data buffers to hold the incoming image. You will need \( \text{output}_\text{width} \times \text{output}_\text{components} \) JSAMPLEs per scanline in your output buffer, and a total of \( \text{output}_\text{height} \) 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 (i.e., 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_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`:

```c
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.

```c
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.

```c
int quant_tbl_no
```
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

```c
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_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_componentsNumber of color components in out_color_space.
int output_componentsNumber of color components returned.
int rec_outbuf_heightRecommended 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_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN.

You may want to write an APPn marker of your own devising to identify
the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colors(), in jcpam.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

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When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
  * Fatal errors: the library cannot continue.
  * Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
  * Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method.
The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

  JOCTET * next_output_byte; /* => next byte to write in buffer */
  size_t free_in_buffer;  /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:
init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;        /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:
init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any
data is actually read. Unlike init_destination(), it may leave
bytes_in_buffer set to 0 (in which case a fill_input_buffer() call
will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should
be advanced over num_bytes input bytes, refilling the buffer as
needed. This is used to skip over a potentially large amount of
uninteresting data (such as an APPn marker). In some applications
it may be possible to optimize away the reading of the skipped data,
but it's not clear that being smart is worth much trouble; large
skips are uncommon. bytes_in_buffer may be zero on return.
A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find
a restart (RSTn) marker where one is expected. Its mission is to
find a suitable point for resuming decompression. For most
applications, we recommend that you just use the default resync
procedure, jpeg_resync_to_restart(). However, if you are able to back
up in the input data stream, or if you have a-priori knowledge about
the likely location of restart markers, you may be able to do better.
Read the read_restart_marker() and jpeg_resync_to_restart() routines
in jdmarker.c if you think you'd like to implement your own resync
procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension

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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
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()
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
```
jpeg_start_output(); /* start a new output pass */
for (all scanlines in image) {
    jpeg_read_scanlines()
    display scanlines
}
jpeg_finish_output(); /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically:
while (! jpeg_input_complete(&cinfo))
and the start-output call should read:
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce
output. This is done by calling the routine jpeg_consume_input().
The return value is one of the following:
JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This
routine can be called at any time after initializing the JPEG object. It
reads some additional data and returns when one of the indicated significant
events occurs. (If called after the EOI marker is reached, it will
immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library’s output processing will automatically call jpeg_consume_input()
whenever the output processing overtakes the input; thus, simple lockstep
display requires no direct calls to jpeg_consume_input(). But by adding
calls to jpeg_consume_input(), you can absorb data in advance of what is
being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the
  state of the library’s input processing.

The first of these benefits only requires interspersing calls to
jpeg_consume_input() with your display operations and any other processing
you may be doing. To avoid wasting cycles due to backtracking, it’s best to
call jpeg_consume_input() only after a hundred or so new bytes have arrived.
This is discussed further under “I/O suspension”, above. (Note: the JPEG
library currently is not thread-safe. You must not call jpeg_consume_input()
from one thread of control if a different library routine is working on the
same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available
before you start a new output pass, you may as well skip the output pass
corresponding to the completed scan. This occurs for free if you pass
cinfo.input_scan_number as the target scan number to jpeg_start_output().
The input_scan_number field is simply the index of the scan currently being
consumed by the input processor. You can ensure that this is up-to-date by
emptying the input buffer just before calling jpeg_start_output(): call
jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or
JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the
cinfo.output_scan_number field. The library’s output processing calls
jpeg_consume_input() whenever the current input scan number and row within
that scan is less than or equal to the current output scan number and row.
Thus, input processing can "get ahead" of the output processing but is not
allowed to "fall behind". You can achieve several different effects by
manipulating this interlock rule. For example, if you pass a target scan
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
for (;;) {
    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 (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not
using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
--------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table",
which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.
In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quadrant_ptr = cinfo.quant_tbl_ptrs[n]; /* quadrants 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);
huffman_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 will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.
A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
--------------------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampling 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_colors() 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 framnish 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 cjpe.c or djpe.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 (jmemb.c), then no temporary files are used; virtual arrays are simply malloc()d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.
If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:

1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use...
jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12. Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.

The sample applications cjpeg and djpeg can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.) Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.
On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
charis at least 8 bits wide
shortis at least 16 bits wide
intis at least 16 bits wide
longis at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the
code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg’s select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near
heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/libjpeg.txt

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.
*/

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jfdctflt.c
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/*
* 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.
*/

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdtrans.c
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/*
* 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.
*/

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/*
* jinclude.h
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jinclude.h
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/*
* 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.
*/
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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemansi.c
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/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-compression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_compress, it will end up linking in the entire compressor.
 * We thus must separate this file from jcapimin.c to avoid linking the
 * whole compression library into a transcoder.
 */

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcapistd.c
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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
 *
 * 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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/*
 * 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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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jerror.h
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/*
 * 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/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdapistd.c
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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_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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  */opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jerror.c
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/*

* jdapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.

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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 decompression half
of the JPEG library. These are the "minimum" API routines that may be
needed in either the normal full-decompression case or the
transcoding-only case.

Most of the routines intended to be called directly by an application
are in this file or in jdapistd.c. But also see jcomapi.c for routines
shared by compression and decompression, and jdtrans.c for the transcoding
case.

Found in path(s):

/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdapimin.c

### 1.1503 c-ares 1.6.0

#### 1.1503.1 Available under license:

```c
# c-ares license

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```

### 1.1504 spring-context 4.3.14.RELEASE

#### 1.1504.1 Available under license:

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```c
/*
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 * you may not use this file except in compliance with the License.
 */
```
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/instrument/classloading/jboss/JBossMCAdapter.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/scripting/bsh/BshScriptUtils.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/context/annotation/Condition.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/context/i18n/SimpleLocaleContext.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/scripting/ScriptFactory.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/format/datetime/standard/DateTimeFormatterFactoryBean.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/scheduling/concurrent/DefaultManagedTaskExecutor.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/context/support/MessageSourceResourceBundle.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/context/annotation/ImportSelector.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/context/i18n/SimpleTimeZoneAwareLocaleContext.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/context/annotation/ProfileCondition.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/context/annotation/FilterType.java
/*
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 * 
 *      http://www.apache.org/licenses/LICENSE-2.0
 * 
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

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Found in path(s):
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
  jar/org/springframework/cache/annotation/CachingConfigurationSelector.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
  jar/org/springframework/context/annotation/Lazy.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
  jar/org/springframework/context/i18n/LocaleContext.java

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Open Source Used In Finesse Software 12.6(1) 14250
jar/org/springframework/scripting/config/ScriptingDefaultsParser.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/scheduling/annotation/AnnotationAsyncExecutionInterceptor.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/scheduling/annotation/EnableScheduling.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/annotation/EnableLoadTimeWeaving.java
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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/validation/AbstractPropertyBindingResult.java
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/**
* [@link FactoryBean] that obtains a WebSphere [@link javax.management.MBeanServer]
* reference through WebSphere's proprietary [@code AdminServiceFactory] API,
* available on WebSphere 5.1 and higher.
* 
* <p>Exposes the [@code MBeanServer] for bean references.
* This FactoryBean is a direct alternative to [@link MBeanServerFactoryBean],
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
* 
* <p>See the javadocs for WebSphere's
* 
* 
* @author Juergen Hoeller
* @author Rob Harrop
@since 2.0.3
@see javax.management.MBeanServer
@see MBeanServerFactoryBean
*/

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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/validation/BindingResultUtils.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jmx/export/assembler/AutodetectCapableMBeanInfoAssembler.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jmx/export/assembler/AbstractSlsbInvokerInterceptor.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/event/ContextStoppedEvent.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/ResourceLoaderAware.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/access/DefaultLocatorFactory.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/access/ContextBeanFactoryReference.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jmx/export/notification/NotificationPublisher.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/remoting/support/DefaultRemoteInvocationFactory.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/remoting/rmi/RmiBasedExporter.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java

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  */opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/scheduling/annotation/ScheduledAnnotationBeanPostProcessor.java
  */opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/support/ResourceBundleMessageSource.java
  */opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/annotation/ComponentScanBeanDefinitionParser.java
  */opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
  */opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/cache/annotation/CachingConfigurer.java
  */opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/cache/interceptor/CacheAspectSupport.java
  */opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/support/PropertySourcesPlaceholderConfigurer.java
  */opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/support/ReloadableResourceBundleMessageSource.java

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/**
 * Indicates that a component is only eligible for registration when all
 *  [@linkplain #value specified conditions] match.
 *  
 *  &lt;p&gt;A &lt;em&gt;condition&lt;/em&gt; is any state that can be determined programatically
 *  before the bean definition is due to be registered (see {@link Condition} for details).
 *  
 *  &lt;p&gt;The [@code @Conditional] annotation may be used in any of the following ways:
 */
as a type-level annotation on any class directly or indirectly annotated with
{@code @Component}, including {@link Configuration @Configuration} classes
as a meta-annotation, for the purpose of composing custom stereotype
annotations
as a method-level annotation on any {@link Bean @Bean} method
If a {@code @Configuration} class is marked with {@code @Conditional},
all of the {@code @Bean} methods, {@link Import @Import} annotations, and
{@link ComponentScan @ComponentScan} annotations associated with that
class will be subject to the conditions.

NOTE: Inheritance of {@code @Conditional} annotations
is not supported; any conditions from superclasses or from overridden
methods will not be considered. In order to enforce these semantics,
{@code @Conditional} itself is not declared as
{@link java.lang.annotation.Inherited @Inherited}; furthermore, any
custom <em>composed annotation</em> that is meta-annotated with
{@code @Conditional} must not be declared as {@code @Inherited}.

@since 4.0
@see Condition
*/

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jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/remoting/support/RemoteInvocationFactory.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/scripting/config/LangNamespaceUtils.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/jndi/JndiAccessor.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
jar/org/springframework/jndi/config/AbstractJndiLocatingBeanDefinitionParser.java

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/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 */
* @author Stephane Nicoll
* @since 4.1
*/

Found in path(s):
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/annotation/ConfigurationClassParser.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/instrument/classloading/websphere/WebSphereClassPreDefinePlugin.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java

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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.

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

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

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

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

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

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/* * 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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1.1521 struts2-config-browser-plugin 2.5.22

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- web-common_3_1.xsd
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1.1525 icu 50.1.2 15.el7
1.1525.1 Available under license :

## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2009, International Business Machines Corporation and
## Commands to generate dependency files
GEN_DEPS.c=$\$(CC) -E -MM $\$(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$\$(CXX) -E -MM $\$(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

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

## End FreeBSD-specific setup

1.1526 fetch 2.0.4

1.1527 xerces-j 2.8.0
1.1527.1 Available under license :

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1.1532 jetty-util 8.1.15.v20140411

1.1533 jettison 1.1

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

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

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

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

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The "Artistic License"

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* /opt/ cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java
* /opt/ cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java
* /opt/ cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/adapter/TargetSourceCreator.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/support/RootClassFilter.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/MethodBeforeAdvice.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/PointcutAdvisor.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/target/PoolingConfig.java

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Found in path(s):
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/TargetSource.java

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1.1539  util-linux 2.23.2  26.el7

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 */

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2ef9 bsd.img

---layout----------
Device Boot Start End Blocks Id System
-------------------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
-------------------

Create 2nd primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dffe51a88a045db233418dd73f8 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
__ts_dev__2 4096 20479 8192 a5 FreeBSD
-------------------

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end   size   ftype [fsize bsize cpg]
c:  4096  20479  16384  unused   0     0
  d:   0  16064  16065  unused   0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img
---layout--------

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#    start   end   size   ftype [fsize bsize cpg]
a:  4096   6144   2049  4.2BSD   0     0
  c:  4096  20479  16384  unused   0     0
  d:   0  16064  16065  unused   0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused   5  4.1BSD   9  4.4LFS   d  boot
1  swap    6  Eighth Edition  a  unknown  e  ADOS
1.1540 expression 3.1.4.RELEASE

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1.1545 xmlsec 1.2.20 7.el7_4

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References

* AOL
  http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

* Cordys R&D BV

* Cryptocom LTD

1.1546 zlib 1.2.11

1.1546.1 Available under license:
/* zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.11, January 15th, 2017

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1.1562 geo-ip 1.5.0 13.el7
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1.1563 clang 6.0.1-2.el7
1.1563.1 Available under license :

; RUN: llc < %s -mtriple=s390x-linux-gnu -mccpu=CEC12 -verify-machineinets | FileCheck %s

; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246: ; preds = %CF246, %BB
%SI163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %SI163, i8* %0
br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit | FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the
legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpadd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpadd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}
define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpaddd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqu %ymm1, (%rax)
; CHECK-NEXT: vmovdqu %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 nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:

Open Source Used In Finesse Software 12.6(1) 14612


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:  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 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 %ymm3, %ymm1, %ymm1
    ; CHECK-NEXT:     addq $32, %rcx
    ; CHECK-NEXT:     cmpq %rcx, %rax
    ; CHECK-NEXT:     jne .LBB8_1
    ; CHECK-NEXT:     vpaddd %ymm0, %ymm1, %ymm1
    ; CHECK-NEXT:     vpaddd %ymm1, %ymm3, %ymm3
    ; CHECK-NEXT:     vextracti128 $1, %ymm0, %ymm1
    ; CHECK-NEXT:     vpaddd %ymm0, %ymm1, %ymm1
    ; CHECK-NEXT:     vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:     vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
}

%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %y.ptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
entry:
  %3 = zext i32 %2 to i64
br label %vector.body

vector.body:
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
  %4 = getelementptr inbounds i8, i8* %0, i64 %index
  %5 = bitcast i8* %4 to <32 x i8>*
  %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
  %6 = sext <32 x i8> %wide.load to <32 x i32>
  %7 = getelementptr inbounds i8, i8* %1, i64 %index
  %8 = bitcast i8* %7 to <32 x i8>*
  %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
  %9 = sext <32 x i8> %wide.load14 to <32 x i32>
  %10 = mul nsw <32 x i32> %9, %6
  %11 = add nsw <32 x i32> %10, %vec.phi
  %index.next = add i64 %index, 32
  %12 = icmp eq i64 %index.next, %3
  br %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> %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> %bin.rdx15 = add <32 x i32> %bin.rdx1, %rdx.shuf
  %rdx.shuf15 = shufflevector <32 x i32> %bin.rdx15, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx32 = add <32 x i32> %bin.rdx1, %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> %bin.rdx18 = add <32 x i32> %bin.rdx15, %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>
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: _Z9test_charPcS_i_512:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    movl %edx, %eax
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    xorl %ecx, %ecx
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB9_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
    ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
    ; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB9_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
    ; 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 %xmm1, %xmm0, %eax
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    entry:
    %3 = zext i32 %2 to i64
    br label %vector.body
}

vector.body:
    %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
    %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
    %4 = getelementptr inbounds i8, i8* %0, i64 %index
    %5 = bitcast i8* %4 to <32 x i8>*
    %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
%bin.rdx15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 unde
%bin.rdx32 = add <32 x i32> %bin.rdx1, %rdx.shuf
%bin.rdx.shuf15 = shufflevector <32 x i32> %bin.rdx15, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 unde
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%bin.rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 unde
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK:    # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0

Open Source Used In Finesse Software 12.6(1) 14618
; 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), %ymm2
; CHECK-NEXT:  vpsadbw b+1024(%rax), %ymm2
; CHECK-NEXT:  vpaddd %ymm1, %ymm2, %ymm1
; CHECK-NEXT:  addq $4, %rax
; CHECK-NEXT:  jne .LBB10_1
; CHECK-NEXT:  .bb.2: # %middle.block
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vextract128 $1, %ymm0, %ymm1
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0
; 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 %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vmovd %ymm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
  br label %vector.body

vector.body:

%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:

%lcissa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %lcissa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12,
i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef >
%bin.rdx = add <16 x i32> %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, 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, 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:    vpaddd %zmm0, %zmm1, %zmm0
 ; CHECK-NEXT:    addq $4, %rax
 ; CHECK-NEXT:    jne .LBB11_1
 ; CHECK-NEXT:  # %bb.2: # %middle.block
 ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
 ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
 ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
 ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
 ; CHECK-NEXT:    vpsufb {{.*#*+}} xmm1 = xmm0[2,3,0,1]
 ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
 ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %zmm0
 ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
 ; CHECK-NEXT:    vmovd %xmm0, %eax
 ; CHECK-NEXT:    vzeroupper
 ; CHECK-NEXT:    retq
entry:
  br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ 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 = load <16 x i8>, <16 x i8>* %1, align 4
%3 = bitcast i8* %2 to <16 x i32>*
%4 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%5 = bitcast i8* %4 to <16 x i8>*
%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> 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>
%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, 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>
%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: vpmovmd %k1, %ymm0
; CHECK-NEXT: vcvtq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovmd %k0, %ymm1

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; 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: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @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: vcvtdq2pd %xmm0, %ymmm0
; CHECK-NEXT: vcdq2pd %ymm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %ymm0
; CHECK-NEXT: vmvaps %ymm0, 32(%rdi)
; CHECK-NEXT: vmvaps %ymm0, %ymm0
; CHECK-NEXT: vmvaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmvaps %ymm0, 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 double>
store <16 x double> %1, <16 x double>* %res
define void @sbtol6f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbtol6f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtq2pd %ymm0, %zmm0
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubtol6f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubtol6f32_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT: vcvtq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubtol6f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubtol6f32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vzeroupper
%mask = icmp slt <16 x i16> %a, zeroinitialize
%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" {
    %mask = icmp slt <16 x i16> %a, zeroinitialize
    %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, zeroinitialize
    %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" {  
; CHECK-LABEL: test_16f32toub_256:   
; CHECK:   # %bb.0:   
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1   
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1   
; CHECK-NEXT: vpmovd2m %ymm1, %k0   
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1   
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1   
; CHECK-NEXT: vpmovd2m %ymm1, %k1   
; CHECK-NEXT: kunpckbw %k0, %k1, %k1   
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] [z]   
; CHECK-NEXT: retq   
%a = load <16 x float>, <16 x float>* %ptr   
%mask = fptoui <16 x float> %a to <16 x i1>   
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer   
ret <16 x i16> %select   }

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
; CHECK-LABEL: test_16f32toub_512:   
; CHECK:   # %bb.0:   
; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1   
; 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   
%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_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   
%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   }
; CHECK-NEXT:  vcvtps2dq 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:  vcvtps2dq (%rdi), %zmm1
; CHECK-NEXT:  vpmovd2m %zmm1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 [%k1] [z]
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: mul256:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
  ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],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[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,30,30,31,31]
; CHECK-NEXT:  vpmullw %ymmm4, %ymmm5, %ymmm4
; CHECK-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
; CHECK-NEXT:  vpmullw %ymmm4, %ymmm5, %ymmm4
; CHECK-NEXT:  vpunpckhbw {{.*#+}} 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:  vpunpckhbw {{.*#+}} ymm0 =
ymmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8]
; CHECK-NEXT: vpmull %ymm2, %ymm0, %ymm0
; CHECK-NEXT: vpand %ymm5, %ymm0, %ymm0
; CHECK-NEXT: vpackuswb %ymm4, %ymm0, %ymm0
; CHECK-NEXT: vpunpckhbw ({{.*#+}} ymm2 =
ymmm3[8],ymmm0[8],ymmm3[9],ymmm0[9],ymmm3[10],ymmm0[10],ymmm3[11],ymmm0[11],ymmm3[12],ymmm0[12],ymmm3[13 ],ymmm0[13],ymmm3[14],ymmm0[14],ymmm3[15],ymmm0[15],ymmm3[24],ymmm0[24],ymmm3[25],ymmm0[25],ymmm3[26],ymmm0 [26],ymmm3[27],ymmm0[27],ymmm3[28],ymmm0[28],ymmm3[29],ymmm0[29],ymmm3[30],ymmm0[30],ymmm3[31],ymmm0[ 31 ]
; CHECK-NEXT: vpunpckhbw ({{.*#+}} ymm4 =
ymmm1[8],ymmm0[8],ymmm1[9],ymmm0[9],ymmm1[10],ymmm0[10],ymmm1[11],ymmm0[11],ymmm1[12],ymmm0[12],ymmm1[13 ],ymmm0[13],ymmm1[14],ymmm0[14],ymmm1[15],ymmm0[15],ymmm1[24],ymmm0[24],ymmm1[25],ymmm0[25],ymmm1[26],ymmm0 [26],ymmm1[27],ymmm0[27],ymmm1[28],ymmm0[28],ymmm1[29],ymmm0[29],ymmm1[30],ymmm0[30],ymmm1[31],ymmm0[ 31 ]
; CHECK-NEXT: vpmull %ymm2, %ymm0, %ymm2
; CHECK-NEXT: vpand %ymm5, %ymm2, %ymm2
; CHECK-NEXT: vpunpcklbw ({{.*#+}} ymm3 =
ymmm0[0],ymmm0[1],ymmm3[0],ymmm0[0],ymmm3[1],ymmm0[1],ymmm3[2],ymmm0[2],ymmm3[3],ymmm0[3],ymmm3[4],ymmm0[4],ymmm3[5],ymmm0[5 ],ymmm3[6],ymmm0[6],ymmm3[7],ymmm0[7],ymmm3[16],ymmm0[16],ymmm3[17],ymmm0[17],ymmm3[18],ymmm0[18],ymmm3[1 9],ymmm0[19],ymmm3[20],ymmm0[20],ymmm3[21],ymmm0[21],ymmm3[22],ymmm0[22],ymmm3[23],ymmm0[23]
; CHECK-NEXT: vpunpcklbw ({{.*#+}} ymm1 =
ymmm0[0],ymmm0[1],ymmm1[0],ymmm0[1],ymmm1[2],ymmm0[2],ymmm1[3],ymmm0[3],ymmm1[4],ymmm0[4],ymmm1[5],ymmm0[5 ],ymmm1[6],ymmm0[6],ymmm1[7],ymmm0[7],ymmm1[16],ymmm0[16],ymmm1[17],ymmm0[17],ymmm1[18],ymmm0[18],ymmm1[ 19],ymmm0[19],ymmm1[20],ymmm0[20],ymmm1[21],ymmm0[21],ymmm1[22],ymmm0[22],ymmm1[23],ymmm0[23]
; CHECK-NEXT: vpmull %ymm3, %ymm1, %ymm1
; CHECK-NEXT: vpand %ymm5, %ymm1, %ymm1
; CHECK-NEXT: vpackuswb %ymm2, %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%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
}

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 =
zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13], zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0 [26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],zmm 1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[ 44]}

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University of Illinois at Urbana-Champaign

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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;none yet&gt;</td>
<td></td>
</tr>
</tbody>
</table>

; 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>
define void @zext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'zext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; SKX256-LABEL: 'zext512'
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; VEC512-LABEL: 'zext512'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
  %C = zext <16 x i8> undef to <16 x i32>
  %D = zext <16 x i16> undef to <16 x i32>
  %E = zext <32 x i8> undef to <32 x i16>
  ret void
define void @sext256() "min-legal-vector-width"="256" {
 ; VEC256-LABEL: 'sext256'
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 ; VEC512-LABEL: 'sext256'
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 %A = sext <8 x i8> undef to <8 x i64>
 %B = sext <8 x i16> undef to <8 x i64>
 %C = sext <8 x i32> undef to <8 x i64>
 %D = sext <16 x i8> undef to <16 x i32>
 %E = sext <16 x i16> undef to <16 x i32>
 %F = sext <32 x i8> undef to <32 x i16>
 ret void
}

define void @sext512() "min-legal-vector-width"="512" {
 ; AVX-LABEL: 'sext512'
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 ret void
}
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}
$OpenBSD: COPYRIGHT,v 1.3 2003/06/02 20:18:36 millert Exp $

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*/
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
  br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
%lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]

sw.bb.i: ; preds = %while.body
  unreachable

sw.bb3.i: ; preds = %while.body
  unreachable

exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]

sw.bb.i17: ; preds = %exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

sw.bb3.i20: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable
while.end: ; preds = %entry
  ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; CHECK-LABEL: test_sitofp_fixed:

  ; First, extend each i32 to i64
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
  ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

  ; Next, convert each to double.
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
  ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
  ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
  ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
  ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
  ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
  ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
  ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

  ; CHECK: ret
  %flt = sitofp <16 x i32> %in to <16 x double>
  %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
  ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.

define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
  ; CHECK-LABEL: test_sitofp_fixed_shortish:

  ; CHECK-DAG: scvtf.2d v0, v0
  ; CHECK-DAG: scvtf.2d v1, v1
; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}
; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}

define internal void @innerNoAttribute() {
  ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
  call void @innerSmall()
  ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
  call void @innerNoAttribute()
  ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" } 
; 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:  %\[
; CHECK-DAG:  %\[
; CHECK-DAG:  %\[
; CHECK-DAG:  %\[
; CHECK:  %0 = inttoptr i32 %\[
; CHECK-NEXT:  %1 = load volatile i8, i8* %0
; CHECK-NEXT:  %\[
; CHECK-NEXT:  %\[
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; CHECK-NEXT:  %\[
; CHECK-NEXT:  store i8 %9, i8* %10

@goo = global i8* undef

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttopr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttopr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttopr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttopr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttopr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttopr (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
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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<td>llvm/utils/unittest/googletest</td>
</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/[reg*, COPYRIGHT.regex]</td>
</tr>
<tr>
<td>pyyaml tests</td>
<td>llvm/test/YAMLParser/[*.data, LICENSE.TXT]</td>
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<td>md5 contributions</td>
<td>llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h</td>
</tr>
<tr>
<td>LLVM System Interface Library</td>
<td></td>
</tr>
</tbody>
</table>
; RUN: llc -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
; CHECK-LABEL: TestFabs:
; CHECK andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000000000000000000000, %mul
  ret fp128 %res
}
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jar/org/apache/commons/digester/plugins/strategies/LoaderFromStream.java
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* /opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-jar/org/apache/commons/digester/plugins/package.html
* /opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-jar/org/apache/commons/digester/xmlrules/package.html
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  jar/org/apache/commons/digester/plugins/PluginConfigurationException.java
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  jar/org/apache/commons/digester/SetNestedPropertiesRule.java
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  jar/org/apache/commons/digester/plugins/strategies/FinderFromFile.java

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  * /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/io/BaseEncoding.java
  * /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/hash/ChecksumHashFunction.java
  * /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/CartesianList.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/reflect/TypeParameter.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/util/concurrent/CycleDetectingLockFactory.java

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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/Maps.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/Multimaps.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/NaturalOrdering.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/NullsFirstOrdering.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/cache/Weigher.java

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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/ComputingConcurrentHashMap.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/SortedLists.java

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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/io/PatternFilenameFilter.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/SimpleTimeLimiter.java

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Automated Testing Framework

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5:cf2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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Manifest-Version: 1.0
Ant-Version: Apache Ant 1.7.0
Created-By: 1.6.0_07 (Apple Inc.)
Export-Package: com.google.inject.tools.jmx;uses:="com.google.inject.javamanagement";version="1.2"
Bundle-Name: guice-jmx
Bundle-Copyright: Copyright (C) 2006 Google Inc.
Bundle-Vendor: Google Inc.
Bundle-Version: 2.0
Bundle-ManifestVersion: 2
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-Description: Guice is a lightweight dependency injection framework for Java 5 and above
Import-Package: com.google.inject;version="[1.2,2)".com.google.inject.tools.jmx;version="[1.2,2)".javamanagement;resolution:=optional
Bundle-SymbolicName: com.google.inject.tools.jmx
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1.1581 hibernate-validator 5.1.0.Final

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1.1582 libjpeg 1.2.90-6.el7

1.1582.1 Available under license:

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

/*
 * rdswitch.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 * -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/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdswitch.c

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

/*
 * transupp.h
* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
*
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/transupp.h
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; For conditions of distribution and use, see copyright notice in jsimdext.inc
; more details.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfmmxint.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jimmxint.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfss2int.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jiss2int.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm
No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdtrans.c
No license file was found, but licenses were detected in source scan.

/*/ 
* jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file exists to provide a single place to fix any problems with
 * including the wrong system include files. (Common problems are taken
 * care of by the standard jconfig symbols, but on really weird systems
 * you may have to edit this file.)
 *
 * NOTE: this file is NOT intended to be included by applications using the
 * JPEG library. Most applications need only include jpeglib.h.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jinclude.h
No license file was found, but licenses were detected in source scan.

/*/ 
* jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer
 * IDCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
* a time).  Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jidctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jdmerge.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains code for merged upsampling/color conversion.
* 
* This file combines functions from jdsample.c and jdcancelor.c;
* read those files first to understand what's going on.
* 
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
*  
* R = Y + K1 * Cr
* G = Y + K2 * Cb + K3 * Cr
* B = Y + K4 * Cb
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* \texttt{YCbCr} $\rightarrow$ \texttt{RGB} color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmerge.c

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

\%f0\%fs24 \%cf0 libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.\%
\%
libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and\big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.\%
\%
libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.\%

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/ReadMe.rtf

No license file was found, but licenses were detected in source scan.
/*
 * jdatadst.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdatadst.c
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; For conditions of distribution and use, see copyright notice in jsimdext.inc
; for more details.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfss2fst.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jimmxfst.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfss2fst-64.asm
No license file was found, but licenses were detected in source scan.

/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
*/
This file contains a very simple stand-alone application that inserts
user-supplied text as a COM (comment) marker in a JFIF file.
This may be useful as an example of the minimum logic needed to parse
JPEG markers.

Found in path(s):
/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrjpgcom.c
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This file was part of the Independent JPEG Group's software:
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Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

This file contains application interface code for the decompression half
of the JPEG library. These are the "standard" API routines that are
used in the normal full-decompression case. They are not used by a
transcoding-only application. Note that if an application links in
jpeg_start_decompress, it will end up linking in the entire decompressor.
We thus must separate this file from jdapimin.c to avoid linking the
whole decompression library into a transcoder.

Found in path(s):
/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdapistd.c
No license file was found, but licenses were detected in source scan.

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.
Open Source Used In Finesse Software 12.6(1)  14831

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jutils.c

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

/ *
* rdrle.c
* 
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
* 
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdrle.c

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

/ *
* jmemsys.h
* 
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
* 
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR


* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jmemsys.h

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

USING THE IJG JPEG LIBRARY

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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
Basic library usage:
Data formats
Compression details
Decompression details
Mechanics of usage: include files, linking, etc
Advanced features:
Compression parameter selection
Decompression parameter selection
Special color spaces
Error handling
CompRESSED data handling (source and destination managers)
I/O suspension
Progressive JPEG support
Buffered-image mode
Abbreviated datastreams and multiple images
Special markers
Raw (downsampled) image data
Really raw data: DCT coefficients
Progress monitoring
Memory management
Memory usage
Library compile-time options
Portability considerations
Notes for MS-DOS implementors

You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
=========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the
low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);

while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);

Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager",.
which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
  jpeg_read_scanlines(...);
  jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

**BASIC LIBRARY USAGE**

**>Data formats**
Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)
The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
--------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```
jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and 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:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type
of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.
Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

**WARNING:** it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.
Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.
Typical code is just

`jpeg_start_decompress(&cinfo);`

If you have requested a multi-pass operating mode, such as 2-pass color quantization, `jpeg_start_decompress()` will do everything needed before data output can begin. In this case `jpeg_start_decompress()` may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; `jpeg_start_decompress()` will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

- `output_width`: image width and height, as scaled
- `output_height`
- `out_color_components`: # of color components in `out_color_space`
- `output_components`: # of color components returned per pixel
- `colormap`: the selected colormap, if any
- `actual_number_of_colors`: number of entries in colormap

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need `output_width * output_components` JSAMPLEs per scanline in your output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as `djpeg` does), then the manager's protocol requires that you request large buffers *before* calling `jpeg_start_decompress()`. This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling `jpeg_calc_output_dimensions()` after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)

`jpeg_read_scanlines(...);`

Now you can read the decompressed image data by calling `jpeg_read_scanlines()` one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); `jpeg_read_scanlines()` will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return
different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.)
The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.
8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeg.h to obtain declarations of data types and routines. Before including jpeg.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 jpegconfig.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, jpegconfig.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_colorsapce() before rather than after.

jpeg_default_colorsapce (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorsapce(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values
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:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using
jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker. jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

```
UINT8 density_unit
UINT16 X_density
UINT16 Y_density
```
The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

```
boolean write_Adobe_marker
```
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

```
JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
```
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

```
int q_scale_factor[NUM_QUANT_TBLS]
```
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100) for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG quality levels chosen by the user must be converted to these scales using jpeg_quality_scaling(). Here is an example that corresponds to cjpeg -quality 90,70:

```
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: Setting separate quality levels for chrominance and luminance
is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

```c
    cinfo->comp_info[0].v_samp_factor = 1;
    cinfo->comp_info[0].h_samp_factor = 1;
```

```c
    JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
    JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
```

Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used. Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

### [libjpeg v7+ API/ABI emulation only]

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

```
    JDIMENSION jpeg_width
    JDIMENSION jpeg_height
```

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

```
    int component_id
    The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

    int h_samp_factor
    int v_samp_factor
    Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except
for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is
0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are
0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in
release v6, the compressor library will fill this in automatically;
you don't have to.)

Decompression parameter selection
---------------------------------

Decompression parameter selection is somewhat simpler than compression
parameter selection, since all of the JPEG internal parameters are
recorded in the source file and need not be supplied by the application.
(Unless you are working with abbreviated files, in which case see
"Abbreviated datastreams", below.) Decompression parameters control
the postprocessing done on the image to deliver it in a format suitable
for the application's use. Many of the parameters control speed/quality
tradeoffs, in which faster decompression may be obtained at the price of
a poorer-quality image. The defaults select the highest quality (slowest)
processing.

The following fields in the JPEG object are set by jpeg_read_header() and
may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Colorspace of image
boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG
standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

**J_COLOR_SPACE out_color_space**
Output color space. `jpeg_read_header()` sets an appropriate default based on `jpeg_color_space`; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to `JCS_GRAYSCALE` to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend `jdcolor.c` if you want an unusual conversion.

**unsigned int scale_num, scale_denom**
Scale the image by the fraction `scale_num/scale_denom`. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

**boolean quantize_colors**
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if `quantize_colors` is TRUE.

**int desired_number_of_colors**
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

**boolean two_pass_quantize**
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

**J_DITHER_MODE dither_mode**
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
Ordered dither: moderate speed and quality
Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is
described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width	Actual dimensions of output image.
JDIMENSION output_height
int out_color_components
Number of color components in out_color_space.
int output_components
Number of color components returned.
int rec_outbuf_height
Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
-------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand
additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

- RGB => YCbCr
- RGB => GRAYSCALE
- YCbCr => GRAYSCALE
- CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

- YCbCr => RGB
- YCbCr => GRAYSCALE
- RGB => GRAYSCALE
- GRAYSCALE => RGB
- YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only
wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by
example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.
The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second “add-on” message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won’t have to worry about conflicts with the library’s built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager” module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager” to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer’s size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original
data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```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
You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large
skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
-------------

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine.
The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:
At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.

When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a
suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a
pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
------------------------

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable “scan script” defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library’s “buffered-image” mode, in which it receives a decoded image multiple times.
Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc.

The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.
In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
  adjust output decompression parameters if required
  jpeg_start_output()/* start a new output pass */
  for (all scanlines in image) {
    jpeg_read_scanlines()
    display scanlines
  }
  jpeg_finish_output()/* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output()
advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()).
With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what’s needed to produce output. This is done by calling the routine jpeg_consume_input().
The return value is one of the following:
JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library’s output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library’s input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it’s best to
call jpeg_consume_input() only after a hundred or so new bytes have arrived.
This is discussed further under "I/O suspension", above. (Note: the JPEG
library currently is not thread-safe. You must not call jpeg_consume_input()
from one thread of control if a different library routine is working on the
same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available
before you start a new output pass, you may as well skip the output pass
corresponding to the completed scan. This occurs for free if you pass

cinfo.input_scan_number as the target scan number to jpeg_start_output().
The input_scan_number field is simply the index of the scan currently being
consumed by the input processor. You can ensure that this is up-to-date by
emptying the input buffer just before calling jpeg_start_output(): call
jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or
JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the
cinfo.output_scan_number field. The library's output processing calls
jpeg_consume_input() whenever the current input scan number and row within
that scan is less than or equal to the current output scan number and row.
Thus, input processing can "get ahead" of the output processing but is not
allowed to "fall behind". You can achieve several different effects by
manipulating this interlock rule. For example, if you pass a target scan
number greater than the current input scan number, the output processor will
wait untill 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_extern_quant = Externally-supplied colormap
enable_2pass_quant = Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the
current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.
It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case.

If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
-------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.
To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpegSuppressTables(&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 jpegWriteTables(&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
ejpeg_write_tables(&cinfo);
set destination to image file
ejpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image.
If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
```
cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a
constant JQUANT_TBL object is not safe. If the incoming file happened to
contain a quantization table definition, your master table would get
overwritten! Instead allocate a working table copy and copy the master table
into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than
hard-wiring them into your application. The jpeg_read_header() call is
sufficient to read a tables-only file. You must pass a second parameter of
FALSE to indicate that you do not require an image to be present. Thus, the
typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains
an image or just tables. In that case, pass FALSE and check the return value
from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found,
JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value,
JPEG_SUSPENDED, is possible when using a suspending data source manager.)
Note that jpeg_read_header() will not complain if you read an abbreviated
image for which you haven't loaded the missing tables; the missing-table check
occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by
repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence,
without releasing/recreating the JPEG object or the data source module.
(If you did reinitialize, any partial bufferload left in the data source
buffer at the end of one image would be discarded, causing you to lose the
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

```c
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:

```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.)

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 downsampling data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library,
namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downscaled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:
* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as
cinfo->comp_info[i].width_in_blocks*DCTSIZE samples per row
cinfo->comp_info[i].height_in_blocks*DCTSIZE rows in image
after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy
blocks itself; it does not read them from your supplied data. Therefore you
need never pad by more than DCTSIZE samples. An example may help here.
Assume 2h2v downsampling of YCbCr data, that is
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->comp_info[2].v_samp_factor = 1
and suppose that the nominal image dimensions (cinfo->image_width and
cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will
compute downsampled_width = 101 and width_in_blocks = 13 for Y,
downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same
for the height fields). You must pad the Y data to at least 13*8 = 104
columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The
MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16
scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual
sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed,
so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row
of Y data is dummy, so it doesn't matter what you pass for it in the data
arrays, but the scanlines count must total up to 112 so that all of the Cb
and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data
destination module suspends, jpeg_write_raw_data() will return 0.
In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing:
you cannot ask for rescaling or color quantization, for instance. More
seriously, you must deal with the color space and sampling factors present in
the incoming file. If your application only handles, say, 2h1v YCbCr data,
you must check for and fail on other color spaces or other sampling factors.
The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before
jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to
verify that the color space and sampling factors are ones you can handle.
Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The
decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a
buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is
the same as for raw-data compression). The buffer you pass must be large
enough to hold the actual data plus padding to DCT-block boundaries. As with
compression, any entirely dummy DCT blocks are not processed so you need not
allocate space for them, but the total scanline count includes them. The
above example of computing buffer dimensions for raw-data compression is
equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt’s discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming
image and then re-encoding it without loss. To do this, decode in buffered-
image mode as discussed previously, then call jpeg_read_coefficients() after
the last jpeg_finish_output() call. The arrays will be available for your use
until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide
the DCT coefficients stored in virtual block arrays. You can either pass
block arrays read from an input JPEG file by jpeg_read_coefficients(), or
allocate virtual arrays from the JPEG compression object and fill them
yourself. In either case, jpeg_write_coefficients() is substituted for
jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is
* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object
jpeg_write_coefficients() is passed a pointer to an array of virtual block
array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before
jpeg_write_coefficients() is called. A side-effect of
jpeg_write_coefficients() is to realize any virtual arrays that have been
requested from the compression object's memory manager. Thus, when obtaining
the virtual arrays from the compression object, you should fill the arrays
after calling jpeg_write_coefficients(). The data is actually written out
when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes
the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization
tables and sampling factors match the way the data was encoded, or the
resulting file will be invalid. For transcoding from an existing JPEG file,
we recommend using jpeg_copy_critical_parameters(). This routine initializes
all the compression parameters to default values (like jpeg_set_defaults()),
then copies the critical information from a source decompression object.
The decompression object should have just been used to read the entire
JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object
as needing to be written to the output file (thus, it acts like
jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid
emitting abbreviated JPEG files by accident. If you really want to emit an
abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables'
individual sent_table flags, between calling jpeg_write_coefficients() and
jpeg_finish_compress().
Progress monitoring

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

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mngr, 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_mngr 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 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options

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

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.)

At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORTEXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it,
we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
---------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.
The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg’s select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
----------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small
model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/libjpeg-turbo-1.2.90/libjpeg.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdcolor.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009, 2011-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdcolor.c
No license file was found, but licenses were detected in source scan.

="/*
 * jidctred.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains inverse-DCT routines that produce reduced-size output:
 * either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
 * 
 * The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
 * algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
 * with an 8-to-4 step that produces the four averages of two adjacent outputs
 * (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
 * These steps were derived by computing the corresponding values at the end
 * of the normal LL&M code, then simplifying as much as possible.
 * 
 * 1x1 is trivial: just take the DC coefficient divided by 8.
 * 
 * See jidctint.c for additional comments.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jidctred.c
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="/*
 * jccolor.c
 *
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This file contains input colorspace conversion routines.

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This file contains downsampling routines.

Downsampling input data is counted in "row groups". A row group
is defined to be max_v_samp_factor pixel rows of each component,
from which the downsampler produces v_samp_factor sample rows.
A single row group is processed in each call to the downsampler module.

The downsampler is responsible for edge-expansion of its output data
to fill an integral number of DCT blocks horizontally. The source buffer
may be modified if it is helpful for this purpose (the source buffer is
allocated wide enough to correspond to the desired output width).
The caller (the prep controller) is responsible for vertical padding.

The downsampler may request "context rows" by setting need_context_rows
during startup. In this case, the input arrays will contain at least
one row group's worth of pixels above and below the passed-in data;
the caller will create dummy rows at image top and bottom by replicating
the first or last real pixel row.

An excellent reference for image resampling is

The downsampling algorithm used here is a simple average of the source
pixels covered by the output pixel. The hi-falutin sampling literature
refers to this as a "box filter". In general the characteristics of a box
filter are not very good, but for the specific cases we normally use (1:1
and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
nearly so bad. If you intend to use other sampling ratios, you'd be well
advised to improve this code.
* A simple input-smoothing capability is provided. This is mainly intended for cleaning up color-dithered GIF input files (if you find it inadequate, we suggest using an external filtering program such as pnmconvol). When enabled, each input pixel P is replaced by a weighted sum of itself and its eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF, where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcsample.c
No license file was found, but licenses were detected in source scan.

/ *
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jccoefct.c
No license file was found, but licenses were detected in source scan.

; jcolsamp.inc - private declarations for color conversion & up/downsampling
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
; [TAB8]

; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1

%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; ---------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/simd/jcolsamp.inc

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/*
 * rdbmp.c
This file was part of the Independent JPEG Group's software:
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Modified 2009-2010 by Guido Vollbeding.

Modifications:
Modified 2011 by Siarhei Siamashka.
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This file contains routines to read input images in Microsoft "BMP" format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
Currently, only 8-bit and 24-bit images are supported, not 1-bit or 4-bit (feeding such low-depth images into JPEG would be silly anyway).
Also, we don't support RLE-compressed files.

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from an ordinary stdio stream. They further assume that reading begins at the start of the file; start_input may need work if the user interface has already read some data (e.g., to determine that the file is indeed BMP format).

This code contributed by James Arthur Boucher.

Found in path(s):
/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdbmp.c
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/\ncmark.c
*/

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This file contains routines to write JPEG datastream markers.

Found in path(s):
/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcmarkerc.c
No license file was found, but licenses were detected in source scan.

/*
wrppm.c
Copyright (C) 1991-1996, Thomas G. Lane.
Modified 2009 by Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains routines to write output images in PPM/PGM format.
The extended 2-byte-per-sample raw PPM/PGM formats are supported.
The PBMPLUS library is NOT required to compile this software
(but it is highly useful as a set of PPM image manipulation programs).

These routines may need modification for non-Unix environments or
specialized applications. As they stand, they assume output to
an ordinary stdio stream.

libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100
image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and
its about time they become a part of history only. They are too small, come from data sources too old and are
available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are
photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects
of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

These images are (c) there respective owners. You are granted full redistribution and publication rights on these
images provided:

1. The origin of the pictures must not be misrepresented; you must not claim that you took the original pictures. If
you use, publish or redistribute them, an acknowledgment would be appreciated but is not required.
2. Altered versions must be plainly marked as such, and must not be misinterpreted as being the originals.
3. No payment is required for distribution this material, it must be available freely under the conditions stated here.
That is, it is prohibited to sell the material.
4. This notice may not be removed or altered from any distribution.

Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to
everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Fröhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdatasrc-tj.c
No license file was found, but licenses were detected in source scan.

/*
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 *
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 *
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* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2.90/java/org/libjpegturbo/turbojpeg/TJ.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2.90/java/TJUnitTest.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/java/TJExample.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/turbojpeg-jni.c

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

/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
If no color quantization/reduction is required, then this module has no work to do, and it just hands off to the upsample/color conversion code. An integrated upsample/convert/quantize process would replace this module entirely.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdpostct.c
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* Modifications:
  * Copyright (C) 1999-2006, MIYASAKA Masaru.
  * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
  * Copyright (C) 2011 D. R. Commander
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains the forward-DCT management logic.
  * This code selects a particular DCT implementation to be used,
  * and it performs related housekeeping chores including coefficient quantization.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcdctmgr.c
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  *
  * This file contains input colorspace conversion routines.
No license file was found, but licenses were detected in source scan.

TurboJPEG Java Wrapper

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpegturbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the “official” distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
No license file was found, but licenses were detected in source scan.

; jsimdext.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
;
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; 2. Altered source versions must be plainly marked as such, and must not be
; misrepresented as being the original software.
; 3. This notice may not be removed or altered from any source distribution.
;
; [TAB8]

;=========================================================================
; System-dependent configurations

%;ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)--
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32

; -- segment definition --
;
; %ifdef __YASM_VER_
; %define SEG_TEXT .text align=16
; %define SEG_CONST .rdata align=16
; %else
; %define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .rdata align=16 public use32 class=CONST
%endif

%elifdef WIN64; ----(nasm -fwin64 -DWIN64 ...)---------
; * Microsoft Visual C++

; -- segment definition --
;
%ifndef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name) name			; foo() -> foo

%elifdef OBJ32; ----(nasm -fobj -DOBJ32 ...)-----------
; * Borland C++ (Win32)

; -- segment definition --
;
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA

%elifdef ELF; ----(nasm -felf[64] -DELF ...)-----------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifndef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_	; ELF supports PIC
%define EXTN(name) name			; foo() -> foo
%elifdef AOUT; ----(nasm -faoutb/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -f aoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT    .text
%define SEG_CONST   .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL  __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

%elifdef MACHO; ----(nasm -fmacho -DMACHO ...)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT    .text ;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST   .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL  _MACHO_PIC_; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT    .text
%define SEG_CONST   .data

%endif; ----------------------------------------------

; ==========================================================================
; --------------------------------------------------------------------------
; Common types
;
%ifdef __x86_64__
%define POINTER                 qword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_QWORD    ; sizeof(POINTER)
%define POINTER_BIT             QWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER                 dword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_DWORD    ; sizeof(POINTER)
%define POINTER_BIT             DWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%endif
%define INT dword ; signed integer type
%define SIZEOF_INT SIZEOF_DWORD ; sizeof(INT)
%define INT_BIT DWORD_BIT ; sizeof(INT)*BYTE_BIT

%define FP32 dword ; IEEE754 single
%define SIZEOF_FP32 SIZEOF_DWORD ; sizeof(FP32)
%define FP32_BIT DWORD_BIT ; sizeof(FP32)*BYTE_BIT

%define MMWORD qword ; int64 (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD ; sizeof(MMWORD)
%define MMWORD_BIT QWORD_BIT ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn’t properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_QWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT QWORD_BIT ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE 1 ; sizeof(BYTE)
%define SIZEOF_WORD 2 ; sizeof(WORD)
%define SIZEOF_DWORD 4 ; sizeof(DWORD)
%define SIZEOF_QWORD 8 ; sizeof(QWORD)
%define SIZEOF_QWORD 16 ; sizeof(QWORD)

%define BYTE_BIT 8 ; CHAR_BIT in C
%define WORD_BIT 16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT 32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT 64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT 128 ; sizeof(OWORD)*BYTE_BIT

; ; External Symbol Name
; ;
%ifndef EXTN
%define EXTN(name) _ %+ name ; foo() -> _foo
%endif

; ; Macros for position-independent code (PIC) support
; ;
%ifndef GOT_SYMBOL
%define GOT_SYMBOL
%endif
At present, nasm doesn’t seem to support PIC generation for Mach-O.
The PIC support code below is a little tricky.

SECTION SEG_CONST
const_base:

%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT 1
; NOTE: this macro destroys ecx register.
call %geteip
addecx, byte (%%ref - $)
jmpshort %%adjust
%geteip:
move ecx, POINTER [esp]
ret
%adjust:
pushebp
xorebp, ebp; ebp = 0
%ifdne %1, ebx; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,9C,E9,(offset32)
dbx8D,0x9C; 8D,9C
jmpnear const_base; E9,(const_base-%%ref)
%ref:
%else ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,8C,E9,(offset32)
dbx8D,0x8C; 8D,8C
jmpnear const_base; E9,(const_base-%%ref)
%ref:mov%1, ecx
%endif ; (%1 == ebx)
popebp
%endmacro

%else; GOT_SYMBOL != _MACHO_PIC_ --------------

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT 1
extern GOT_SYMBOL
call %geteip
add%1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmpshort %%done
%%geteip:
mov%1, POINTER [esp]
ret
%%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_  ------------------

%define GOTOFF(got,sym) (sym)

%imacro pushpic1.nolist
push%1
%endmacro
%imacro poppic1.nolist
pop%1
%endmacro
%imacro movpic2.nolist
mov%1,%2
%endmacro
%imacro movpic1.nolist
mov%1,%2
%endmacro

%else; !PIC  -----------------------------------------

%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n)  (($$-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%%bs:	times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) 
  db 0x90       ; nop
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 
    db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 

; ------------------------------------------------------------------
;  Align the next instruction on {2,4,8,16,...}-byte boundary.
;  ".balign n,,m" in GNU as
;  ;
;  %define MSKLE(x,y)  (-(y) & 0xFFFF) - ((x) & 0xFFFF) >> 16
;  %define FILLB(b,n)  ($$-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%imacro pushpic1.nolist
push%1
%endmacro
%imacro poppic1.nolist
pop%1
%endmacro
%imacro movpic1.nolist
mov%1,%2
%endmacro

%endif; PIC  -----------------------------------------
; Align the next data on {2,4,8,16,...}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__
%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub rdi, SIZEOF_XMMWORD
movaps XMMWORD [rdi], xmm6
sub rdi, SIZEOF_XMMWORD
movaps XMMWORD [rdi], xmm7
%endmacro

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rdi]
add rdi, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rdi]
add rdi, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro

%endif

%endif

; --------------------------------------------------------------------------
; Defines picked up from the C headers
;
%include "jsimcfg.inc"

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/simd/jsimdext.inc
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jcarith.c

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* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo.spec

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 * 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/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/cdjpeg.c

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 * jdhuff.c
 *
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* 
* This file contains Huffman entropy decoding routines.
* 
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
* */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdhuff.c

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* POSSIBILITY OF SUCH DAMAGE. 
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/tjutil.h
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/bmp.h
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcstest.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCustomFilter.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/bmp.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/tjutil.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJScalingFactor.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransformer.java

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/ *
* jquant2.c
*

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* Modifications:
* Copyright (C) 2009, D. R. Commander.
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*
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
* *
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jquant2.c

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

/ *
* cjpeg.c
This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.

Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
*cjpeg [options] inputfile outputfile
*cjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
*cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90-tar-gz/libjpeg-turbo-1.2.90/cjpeg.c

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

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information
relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in
particular the widely used JFIF file format. The library can be used by
surrounding code to process interchange or abbreviated JPEG datastreams that
are embedded in more complex file formats. (For example, libtiff uses this
library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the
JPEG standard but is necessary for typical applications of JPEG. These
functions preprocess the image before JPEG compression or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling,
and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing,
and even more so in decompression postprocessing. The decompression library
provides multiple implementations that cover most of the useful tradeoffs,
ranging from very-high-quality down to fast-preview operation. On the
compression side we have generally not provided low-quality choices, since
compression is normally less time-critical. It should be understood that the
low-quality modes may not meet the JPEG standard's accuracy requirements;
nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability
issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines
   with limited memory. Images should therefore be processed sequentially (in
   strips), to avoid holding the whole image in memory at once. Where a
   full-image buffer is necessary, we should be able to use either virtual memory
   or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the
code should distinguish "small" objects (kept in near data space) from
"large" ones (kept in far data space). This is an annoying restriction, but
fortunately it does not impact code quality for less brain-damaged machines,
and the source code clutter turns out to be minimal with sufficient use of
pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and
"int" at least 16, "long" at least 32. The code will work fine with larger
data sizes, although memory may be used inefficiently in some cases. However,
the JPEG compressed datastream must ultimately appear on external storage as a
sequence of 8-bit bytes if it is to conform to the standard. This may pose a
problem on machines where char is wider than 8 bits. The library represents
compressed data as an array of values of typedef JOCTET. If no data type
exactly 8 bits wide is available, custom data source and data destination
modules must be written to unpack and pack the chosen JOCTET datatype into
8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [currently it does not].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with
the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more
expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see 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 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports.
This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
 | |-- Coefficient controller --|
 |   |-- Dequantize, Inverse DCT

Main controller --|
 | |-- Upsampling
 | |-- Postprocessing controller --|-- Colorspace conversion
    |   |-- Color quantization
    |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller’s primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.
* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG’s 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).
In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.
A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```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:

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 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.
The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (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.
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
(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set,
never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in 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
- jpeg_mem_available: estimate available memory
- jpeg_open_backing_store: create a backing-store object
- read_backing_store, manipulate a backing-store object
- write_backing_store,
- close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this
lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's
Huffman decoder; this implies a speed penalty whether the feature is used or not.

2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/structure.txt

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/*
 * transupp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/transupp.c

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/*
 * 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/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcmainct.c

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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.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jfdctflt.c
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/*
 * jdmarker.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modifications:
 * Copyright (C) 2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains routines to decode JPEG datastream markers.
 * Most of the complexity arises from our desire to support input
 * suspension: if not all of the data for a marker is available,
 * we must exit back to the application. On resumption, we reprocess
 * the marker.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdmarker.c
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/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jerror.h
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/*
 * wrgif.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 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 stdout 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 GIF ENCODE 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.
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* *
* 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."
*/

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* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfsseflt-64.asm
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* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jcqtmmx-64.asm
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 * jquant1.c
 *
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 * Modifications:
 * Copyright (C) 2009, D. R. Commander
 * 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/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jquant1.c

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* 2. Altered source versions must be plainly marked as such, and must not be
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Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/simd/jsimd_arm_neon.S

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

/*
 * jprepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 *
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
 * jcsample.c for the downsampler's needs.
 */
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcprepct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatadst-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdatadst-tj.c
No license file was found, but licenses were detected in source scan.

/*
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 *
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 * *
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 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
package org.libjpegturbo.turbojpeg;

final class TJLoader {
    static void load() {
        System.loadLibrary("@TURBOJPEG_DLL_NAME@");
    }
};

Found in path(s):
*/

jdcoext.c
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains output colorspace conversion routines.
*/

Found in path(s):
*/

wrrle.c
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/wrrle.c

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\pard\pardeftab720\parg\pardeftab720\pardeftab720\pardeftab720\pardeftab720\pardeftab720\pardeftab720\pardeftab720

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}  

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/License.rtf

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

/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 *
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
 * you need to generate a jconfig.h file by hand, this file tells you how.
 *
 * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
 * EDIT A COPY NAMED JCONFIG.H.
 */

/*
 * These symbols indicate the properties of your machine or compiler.
 * #define the symbol if yes, #undef it if no.
 */

/* Does your compiler support function prototypes?
 * (If not, you also need to use ansi2knr, see install.txt)
 */
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char"?
 * How about "unsigned short"?
 */
#define HAVE_UNSIGNED_CHAR
#define HAVE UNSIGNED SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
 * NOTE: be sure to define void such that "void *" represents the most general
 * pointer type, e.g., that returned by malloc().
 */
#define void char */
/* Define "const" as empty if your compiler doesn't know the "const" keyword. */
#define const

/* Define this if an ordinary "char" type is unsigned. */
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <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 INCOMPLETETYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems.
*/
#if defined_WIN32
#if !defined_RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/
#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.
*/
#if defined 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 */

#endif /* JPEG_CJPEG_DJPEG */

/* 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 cjpegc or djpegc.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 */

/*
* jmorecfg.h
*
* This file was part of the Independent JPEG Group's software:
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* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
*/

* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90-tar.gz/libjpeg-turbo-1.2.90/jconfig.txt
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/*
* jmorecfg.h
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* For conditions of distribution and use, see the accompanying README file.
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg- 
  turbo-1.2.90/jmorecfg.h
No license file was found, but licenses were detected in source scan.

/ *
  * rdcolmap.c
  *
  * Copyright (C) 1994-1996, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file implements djpeg's "-map file" switch. It reads a source image
  * and constructs a colormap to be supplied to the JPEG decompressor.
  *
  * Currently, these file formats are supported for the map file:
  * GIF: the contents of the GIF's global colormap are used.
  * PPM (either text or raw flavor): the entire file is read and
  * each unique pixel value is entered in the map.
  * Note that reading a large PPM file will be horrendously slow.
  * Typically, a PPM-format map file should contain just one pixel
  * of each desired color. Such a file can be extracted from an
  * ordinary image PPM file with ppmtomap(1).
  *
  * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
  * currently implemented.
  */
/* Portions of this code are based on the PBMPLUS library, which is:
  **
  ** Copyright (C) 1988 by Jef Poskanzer.
  **
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  ** documentation for any purpose and without fee is hereby granted, provided
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  ** 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/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
  turbo-1.2.90/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/ *
  * jdhuff.h
  *
  * This file was part of the Independent JPEG Group's software:
  * Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains declarations for Huffman entropy decoding routines
* that are shared between the sequential decoder (jdhuff.c) and the
* progressive decoder (jdphuff.c). No other modules need to see these.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdhuff.h
No license file was found, but licenses were detected in source scan.

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* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/TJBench.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/
turbo-1.2.90/turbojpeg.h
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/tjbench.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/turbojpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmrgext.c
 *
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 * Modifications:
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jdmrgext.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Intl. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
 */
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_x86_64.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * x86_64 architecture.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jsimd_x86_64.c
No license file was found, but licenses were detected in source scan.

/*
 * simd/jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jsimd.h
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 stdout stream.
* 
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/wrtarga.c
No license file was found, but licenses were detected in source scan.

/**
* jQuery JavaScript Library v1.3.2
* http://jquery.com/
* 
* Copyright (c) 2009 John Resig
* Dual licensed under the MIT and GPL licenses.
* http://docs.jquery.com/License
* 
* Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
* Revision: 6246
*/
/**
* Sizzle CSS Selector Engine - v0.9.3
* Copyright 2009, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
* More information: http://sizzlejs.com/
*/
/**
* jQuery UI 1.7.2
* 
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
* 
* http://docs.jquery.com/UI
*/
/**
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*

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

/*
* jdarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains portable arithmetic entropy decoding routines for JPEG
* Both sequential and progressive modes are supported in this single module.
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
* jchuff.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy encoding routines.
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcapimin.c

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

/*
 * 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 jcparsm.c for
 * parameter-setup helper routines, jcomapi.c for routines shared by
 * compression and decompression, and jctrans.c for the transcoding case.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdctmgr.c

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

/*
 * jdctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 *
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
 */
No license file was found, but licenses were detected in source scan.

/*
 * jpegcomp.h
 *
 * Copyright (C) 2010, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * JPEG compatibility macros
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

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.
 */

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).
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdct.h
No license file was found, but licenses were detected in source scan.

/*
* jdatasrc.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
* jsimd_arm.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.
*
* Based on the stubs from 'jsimd_none.c'
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jsimd_arm.c
No license file was found, but licenses were detected in source scan.

*/
* jdphuff.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy decoding routines for progressive JPEG.
*
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdphuff.c
No license file was found, but licenses were detected in source scan.

*******************************************************************************
**     Background
*******************************************************************************

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2,
NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64,
and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as
libjpeg, all else being equal. On other types of systems, libjpeg-turbo can
still outperform libjpeg by a significant amount, by virtue of its
highly-optimized Huffman coding routines. In many cases, the performance of
libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less
powerful but more straightforward TurboJPEG API. libjpeg-turbo also features
colorspace extensions that allow it to compress from/decompress to 32-bit and
big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java
interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated
derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

*******************************************************************************
**     License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

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*******************************************************************************
**     Using libjpeg-turbo
*******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing
and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

========================================================================
Installation Directory
========================================================================

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un*x and Mac systems and c:\libjpeg-turbo\-[gcc]\[64\] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

========================================================================
Replacing libjpeg at Run Time
========================================================================

Un*x
----

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.109s
user 0m0.029s
System administrators can also replace the libjpeg symlinks in /usr/lib* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the library's version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to re-point the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.
Using libjpeg-turbo in Your Own Programs

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Unix systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Unix systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass `-R /opt/libjpeg-turbo/{lib}` to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Unix or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```

On OS X, simply add `/opt/libjpeg-turbo/lib/libjpeg.a` to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add `c:\libjpeg-turbo[64]\include` to the system or user INCLUDE environment variable and `c:\libjpeg-turbo[64]\lib` to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)
libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

- JCS_EXT_RGB /* red/green/blue */
- JCS_EXT_RGBX /* red/green/blue/x */
- JCS_EXT_BGR /* blue/green/red */
- JCS_EXT_BGRX /* blue/green/red/x */
- JCS_EXT_XBGR /* x/blue/green/red */
- JCS_EXT_XRGB /* x/red/green/blue */
- JCS_EXT_RGBA /* red/green/blue/alpha */
- JCS_EXT_BGRA /* blue/green/red/alpha */
- JCS_EXT_ABGR /* alpha/blue/green/red */
- JCS_EXT_ARGB /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```c
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```c
#ifdef JCS_ALPHA_EXTENSIONS
```

jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

===================================
libjpeg v7 and v8 API/ABI Emulation
=================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
======================================

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option
-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored.
SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.
-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
-----------------------

libjpeg v9 introduced yet another field to the JPEG compression structure
(color_transform), thus making the ABI backward incompatible with that of
libjpeg v8. This new field was introduced solely for the purpose of supporting
lossless SmartScale encoding. Further, there was actually no reason to extend
the API in this manner, as the color transform could have just as easily been
activated by way of a new JPEG colorspace constant, thus preserving backward
ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not
generally accomplish anything that can't already be accomplished better with
existing, standard lossless formats. Thus, at this time, it is our belief that
there is not sufficient technical justification for software to upgrade from
libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification
for us to emulate the libjpeg v9 ABI.

=====================================
In-Memory Source/Destination Managers
=====================================

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and
jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI.
Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8
API/ABI emulation in order to use the in-memory source/destination managers,
but several projects requested that those functions be included when emulating
the libjpeg v6b API/ABI as well. This allows the use of those functions by
programs that need them without breaking ABI compatibility for programs that
don't, and it allows those functions to be provided in the "official"
ljpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg
v6b or v7 API can pass an argument of --without-mem-srcdst to configure or
an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo.
This will restore the pre-1.3 behavior, in which jpeg_mem_src() and
jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes
the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI
emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a
function in a library until that function is actually used. Thus, if a program
is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(),
that program will not fail if run against an older version of libjpeg-turbo or
against libjpeg v7- until the program actually tries to call jpeg_mem_src() or
jpeg_mem_dest(). Such is not the case on Windows. If a program is built
against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(),
then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory
source/destination manager functions. See their respective man pages for more
details.

*******************************************************************************
** Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg
v6b. The one exception to this is when using the floating point DCT/IDCT, in
which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to
be identical (the accuracy of the floating point DCT/IDCT is constant when
using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on
the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is
still using the same algorithms as libjpeg v6b, so there are several specific
cases in which libjpeg-turbo cannot be expected to produce the same output as
libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8
implements those scaling algorithms a bit differently than libjpeg v6b does,
and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this
with its DCT/IDCT scaling algorithms rather than with a separate
downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also
because the floating point IDCT algorithm was modified in libjpeg v8a to
improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or
"non-smooth") chrominance upsampling, because libjpeg v8 does not support
merged upsampling with scaling factors > 1.

*******************************************************************************
** Performance Pitfalls
*******************************************************************************
Restart Markers

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as Photoshop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

Fast Integer Forward DCT at High Quality Levels

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/README-turbo.txt
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_i386.c
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* 
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* 32-bit x86 architecture.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in GIF format.
 *
*****************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                                      *
*****************************************************************************
 *
 * We are required to state that
 * "The Graphics Interchange Format(c) is the Copyright property of
 * CompuServe Incorporated. GIF(sm) is a Service Mark property of
 * CompuServe Incorporated."
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdgif.c
No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg- turbo-1.2.90/jdinput.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 * 
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 * 
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
 */
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jfdctfst.c

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

libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo, to wordsmith certain sections, and to remove impolitic language that existed in the libjpeg v8 README. It is included only for reference. Please see README-turbo.txt for information specific to libjpeg-turbo.

The Independent JPEG Group's JPEG software
=============================================

This distribution contains a release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

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

IJJ is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
======================

This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log        Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.txt     How to use the JPEG library in your own programs.
example.c       Sample code for calling the JPEG library.
structure.txt   Overview of the JPEG library's internal structure.
coderules.txt   Coding style rules --- please read if you contribute code.

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

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

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG's strong suit is compressing
photographic images or other types of images that have smooth color and
brightness transitions between neighboring pixels. Images with sharp lines or
other abrupt features may not compress well with JPEG, and a higher JPEG
quality may have to be used to avoid visible compression artifacts with such
images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to
the input pixels. However, on photographic content and other "smooth" images,
very good compression ratios can be obtained with no visible compression
artifacts, and extremely high compression ratios are possible if you are
willing to sacrifice image quality (by reducing the "quality" setting in the
compressor.)

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
We have made no provision for supporting the hierarchical or lossless
processes defined in the standard.

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

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability:
for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
=============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:
(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice
unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library. If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products derived from
it. This software may be referred to only as "the Independent JPEG Group's
software".

We specifically permit and encourage the use of this software as the basis of
commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

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

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

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."

REFERENCES
=============

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

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


The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/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 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
=================

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.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsrc8d.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/faq/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

FILE FORMAT WARS
================

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO
=====

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.
Open Source Used In Finesse Software 12.6(1)  14980

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2-90-tgz/libjpeg-turbo-1.2-90-tar.gz/libjpeg-turbo-1.2.90/README

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

/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2-90-tgz/libjpeg-turbo-1.2-90-tar.gz/libjpeg-turbo-1.2.90/jpegint.h

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

/*
 * jcparam.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2-90-tgz/libjpeg-turbo-1.2-90-tar.gz/libjpeg-turbo-1.2.90/jcparam.c

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

/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdapimin.c
No license file was found, but licenses were detected in source scan.

uled
* cderror.h
  * Copyright (C) 1994-1997, Thomas G. Lane.
  * Modified 2009 by Guido Vollbeding.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  * This file defines the error and message codes for the cjpeg/djpeg
  * applications. These strings are not needed as part of the JPEG library
  * proper.
  * Edit this file to add new codes, or to translate the message strings to
  * some other language.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/cderror.h
No license file was found, but licenses were detected in source scan.

%ifarch x86_64
%define __lib lib64
%else
%define __lib lib
%endif

Summary: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
Name: @PACKAGE_NAME@
Version: @VERSION@
Vendor: The libjpeg-turbo Project
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

%description
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

%prep
#-->%setup -q

%build
#-->/configure libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man

#-->/configure libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man

%install
rm -rf $RPM_BUILD_ROOT
make install DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
docdir=/opt/%{name}/doc exampledir=/opt/%{name}/doc
rm -f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.la
mkdir -p $RPM_BUILD_ROOT/usr/%{__lib}

mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.* $RPM_BUILD_ROOT/usr/%{__lib}/
/sbin/ldconfig -n $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
/sbin/ldconfig -n $RPM_BUILD_ROOT/usr/%{__lib}/

mv $RPM_BUILD_ROOT/opt/%{name}/include/turbojpeg.h $RPM_BUILD_ROOT/usr/include/
ln -sf /usr/include/turbojpeg.h $RPM_BUILD_ROOT/opt/%{name}/include/

mkdir -p $RPM_BUILD_ROOT/%{_defaultdocdir}/

%post -p /sbin/ldconfig
%postun -p /sbin/ldconfig
%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root)
%dir %{_defaultdocdir}/%{name}-%{version}/
%doc %{_defaultdocdir}/%{name}-%{version}/*
%dir /opt/%{name}/bin
/opt/%{name}/bin/cjpeg
/opt/%{name}/bin/djpeg
/opt/%{name}/bin/jpegtran
/opt/%{name}/bin/jbench
/opt/%{name}/bin/rdjpgcom
/opt/%{name}/bin/wrjpgcom
%dir /opt/%{name}/%{__lib}/
%ifarch x86_64
%else
%endif
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@.@SO_AGE@.@SO_MINOR_VERSION@
/opt/%{name}/%{__lib}/libjpeg.so.
/opt/%{name}/%{__lib}/libjpeg.so.0
/opt/%{name}/%{__lib}/libturbojpeg.a
/usr/%{__lib}/libturbojpeg.so.0.0.0
/usr/%{__lib}/libturbojpeg.so
/usr/%{__lib}/libturbojpeg
/usr/include/turbojpeg.h
Open Source Used In Finesse Software 12.6(1) 14984

%dir /opt/%{name}/include
/opt/%{name}/include/jconfig.h
/opt/%{name}/include/jerror.h
/opt/%{name}/include/jmorecfg.h
/opt/%{name}/include/jpeglib.h
/opt/%{name}/include/turbojpeg.h
%dir /opt/%{name}/man
%dir /opt/%{name}/man/man1
/opt/%{name}/man/man1/cjpeg.1*
/opt/%{name}/man/man1/djpeg.1*
/opt/%{name}/man/man1/jpegtran.1*
/opt/%{name}/man/man1/rdjpgcom.1*
/opt/%{name}/man/man1/wrjpgcom.1*
@JAVA_RPM_CONTENTS_1@
@JAVA_RPM_CONTENTS_2@

%changelog

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in
No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcoefct.c
 *
 * This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
*
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/*
* jcphuff.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy encoding routines for progressive JPEG.
*
* We do not support output suspension in this module, since the library
* currently does not allow multiple-scan files to be written with output
* suspension.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcphuff.c
No license file was found, but licenses were detected in source scan.

/*
* djpeg.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* Two different command line styles are permitted, depending on the
  compile-time switch TWO_FILE_COMMANDLINE:
* 
  *djpe [options]  inputfile  outputfile
  *djpe [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
  *djpe [options]  -outfile  outputfile  inputfile
  * works regardless of which command line style is used.
* /

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

/ *
* jdmaster.c
* *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
* /

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmaster.c
No license file was found, but licenses were detected in source scan.

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/release/deb-control.tmpl
No license file was found, but licenses were detected in source scan.

; jdct.inc - private declarations for forward & reverse DCT subsystems
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK (MAXJSAMPLE * 4 + 3) ; 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)

%define DWBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdct.inc
No license file was found, but licenses were detected in source scan.

/*
 * jdsample.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups".  A row group
 * is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
 * sample rows of each component.  Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90jdsample.c
No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)
==================

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4,
11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these
functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and librulugbjpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVDQU instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand
side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form “‘%define’ expects a macro identifier”.

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdtempinc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEGTURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection.
The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
=====

1. Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

2. libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

3. Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

4. Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

5. Fixed a bug in jpeg_read_coefficients() whereby it would not initialize
cininfo->image_width and cininfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
=================

Open Source Used In Finesse Software 12.6(1) 14994
[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
======
1. 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

2. Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

3. The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpegs, etc.) and man pages.

4. Created a 32-bit supplementary package for amd64 Debian systems, which contains just the 32-bit libjpeg-turbo libraries.

5. Moved the libraries from */lib32 to */lib in the i386 Debian package.

6. Include distribution package for Cygwin

7. No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93

======

1. 2982659, Fixed x86-64 build on FreeBSD systems

2. 2988188: Added support for Windows 64-bit systems

0.0.91

======

1. Added documentation to .deb packages

2. 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90

======

Initial release

Found in path(s):

* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

/*
 * jpeglib.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jpeglib.h

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

/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains stubs for when there is no SIMD support available.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jsimd_none.c

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

# Copyright (C)2009-2011 D. R. Commander. All Rights Reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are met:
#
# - Redistributions of source code must retain the above copyright notice,
#   this list of conditions and the following disclaimer.
# - Redistributions in binary form must reproduce the above copyright notice,
#!/bin/sh

if [ ! """id -u""" = "0"" ]; then
echo "ERROR: This script must be executed as root"
exit -1
fi

PACKAGE=@PACKAGE_NAME@
MACPACKAGE=com.$PACKAGE.$PACKAGE
RECEIPT=/Library/Receipts/$PACKAGE.pkg

LSBOM=
if [ -d $RECEIPT ]; then
LSBOM='lsbom -s -f -l $RECEIPT/Contents/Archive.bom'
else
LSBOM='pkgutil --files $MACPACKAGE'
fi

mylsbom()
{
$LSBOM || (echo "ERROR: Could not list package contents"; exit -1)
}

echo Removing package files ...
EXITSTATUS=0
pushd /
mylsbom | while read file; do
if [ ! -d "$file" ]; then rm "$file" 2>&1 || EXITSTATUS=-1; fi
done
popd
echo Removing package directories ...
if [-d /opt/$PACKAGE/bin ]; then
  rmdir /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1
fi
if [-d /opt/$PACKAGE/lib ]; then
  rmdir /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi
if [-d /opt/$PACKAGE/include ]; then
  rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [-d /opt/$PACKAGE/man/man1 ]; then
  rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
fi
if [-d /opt/$PACKAGE/man ]; then
  rmdir /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
fi
if [-d /opt/$PACKAGE/classes ]; then
  rmdir /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
fi
rmdir /opt/$PACKAGE 2>&1 || EXITSTATUS=-1
rmdir /Library/Documentation/$PACKAGE 2>&1 || EXITSTATUS=-1
if [-d $RECEIPT ]; then
  echo Removing package receipt ...
  rm -r $RECEIPT 2>&1 || EXITSTATUS=-1
else
  echo Forgetting package $MACPACKAGE ...
  pkgutil --forget $MACPACKAGE
fi
exit $EXITSTATUS

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/uninstall.in
No license file was found, but licenses were detected in source scan.

/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains routines to read input images in Targa format.
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
* jaricom.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
* This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
* and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
* jpegtran.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpe.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
* /

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcomapi.c
No license file was found, but licenses were detected in source scan.

/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimdct.h

* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jsimdct.h
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy encoding routines
 * that are shared between the sequential encoder (jchuff.c) and the
 * progressive encoder (jcphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jchuff.h
No license file was found, but licenses were detected in source scan.

// Natural Docs is licensed under the GPL.

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

/*
 * jdmainct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
*
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*
* jerror.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
*
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to stderr under most Windows C compilers.
*
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jerror.c
No license file was found, but licenses were detected in source scan.

/*
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.680/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-
turbo-1.2.90/jcapistd.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 cjpe.c and djpe.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar-gz/libjpeg-turbo-1.2.90/coderules.txt
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/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90-tar.gz/libjpeg-turbo-1.2.90/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90-tar.gz/libjpeg-turbo-1.2.90/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * * pool-based allocation and freeing of memory;
 * * policy decisions about how to divide available memory among the
 *   virtual arrays;
 * * control logic for swapping virtual arrays between main memory and
 *   backing storage.
 * The separate system-dependent file provides the actual backing-storage
 * access code, and it contains the policy decision about how much total
 * main memory to use.
* This file is system-dependent in the sense that some of its functions
  * are unnecessary in some systems. For example, if there is enough virtual
  * memory so that backing storage will never be used, much of the virtual
  * array control logic could be removed. (Of course, if you have that much
  * memory then you shouldn't care about a little bit of unused code...)

/*

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jmemmgr.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/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/*

* jidctfst.c

* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
  * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
  * must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
  * on each row (or vice versa, but it's more convenient to emit a row at
  * a time). Direct algorithms are also available, but they are much more
  * complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-jidctfst.c
No license file was found, but licenses were detected in source scan.

/*
 *  jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
 */
* We also provide IDCT routines with various output sample block sizes for
  * direct resolution reduction or enlargement without additional resampling:
  * NxN (N=1...16) pixels for one 8x8 input DCT block.
  *
  * For N<8 we simply take the corresponding low-frequency coefficients of
    * the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
    * to yield the downscaled outputs.
    * This can be seen as direct low-pass downsampling from the DCT domain
    * point of view rather than the usual spatial domain point of view,
    * yielding significant computational savings and results at least
    * as good as common bilinear (averaging) spatial downsampling.
    *
    * For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
      * lower frequencies and higher frequencies assumed to be zero.
      * It turns out that the computational effort is similar to the 8x8 IDCT
      * regarding the output size.
      * Furthermore, the scaling and descaling is the same for all IDCT sizes.
      *
      * CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
        * since there would be too many additional constants to pre-calculate.
      */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jidctint.c
No license file was found, but licenses were detected in source scan.

/ *
* wrbmp.c
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
* *
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* *
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdbmp.c

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

/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The 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/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdppm.c

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

/*
 * jversion.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, 2012-2013, D. R. Commander.

1.1583 hibernate-c3p0 3.5.2-Final

1.1583.1 Available under license :

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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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.

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 */
1.1584 bash 4.2.46 31.el7

1.1584.1 Available under license:

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>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

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-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
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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----------------------------------------------------------------------------
Table of Contents

* GNU GENERAL PUBLIC LICENSE
  o Preamble
  o TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
  o How to Apply These Terms to Your New Programs

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

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

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http://www.openssl.org/

o **LIBLINEAR**. Used for IPv6 OS classification.

http://www.csie.ntu.edu.tw/~cjlin/liblinear/

o **libsvn**. The Subversion library, used by the updater program nmap-update. http://subversion.apache.org/


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o Various X.org libraries. These were built using MacPorts.
   http://www.x.org/ http://www.macports.org/

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

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

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

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

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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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
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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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1.1593 mdadm 4.1 rc1_2.el7

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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.

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 (brazil@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 Peterson (jep@mitaime.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 (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.iss.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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```

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

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```
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```

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

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

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

Author: Julio Merino <jmmv84@gmail.com>

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

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1.1612 kexec-tools 2.0.15 21.el7

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1.1614 logback-core 1.1.7

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Open Source Used In Finess Software 12.6(1) 15439

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* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/Times-BoldItalic.afm

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# # This software is published under the terms of the Apache Software License #
# version 1.1, a copy of which has been included with this distribution in #
# the LICENSE file.  
##############################################################################

# This file registers the example DOM extension as a service for the
# SVGOMDocument.
org.apache.batik.extension.svg.BatikDomExtension

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/META-INF/services/org.apache.batik.dom.svg.DomExtension

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dimensional graphics in XML.

The Scalable Vector Graphics (SVG)
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It is provided "as is" without expressed or implied warranty.

Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/dom/svg/resources/svg11.dtd

No license file was found, but licenses were detected in source scan.
Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/ol/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/Courier.afm
No license file was found, but licenses were detected in source scan.

Comment Creation Date: Thu May 1 17:37:52 1997
Comment UniqueID 43051
Comment VMusage 16248 75829
FontName Courier-Oblique
FullName Courier Oblique
FamilyName Courier
Weight Medium
ItalicAngle -12
IsFixedPitch true
CharacterSet ExtendedRoman
FontBBox -27 -250 849 805
UnderlinePosition -100
UnderlineThickness 50
Version 003.000
EncodingScheme AdobeStandardEncoding
CapHeight 562
XHeight 426
Ascender 629
Descender -157
StdHW 51
StdVW 51
StartCharMetrics 315
C 32 ; WX 600 ; N space ; B 0 0 0 0 ;
C 33 ; WX 600 ; N exclam ; B 243 -15 464 572 ;
C 34 ; WX 600 ; N quoteldbl ; B 273 328 532 562 ;
C 35 ; WX 600 ; N numbersign ; B 133 -32 596 639 ;
C 36 ; WX 600 ; N dollar ; B 108 -126 596 662 ;
C 37 ; WX 600 ; N percent ; B 134 -15 599 622 ;
C 38 ; WX 600 ; N ampersand ; B 87 -15 580 543 ;
C 39 ; WX 600 ; N quoteright ; B 283 328 495 562 ;
C 40 ; WX 600 ; N parenleft ; B 313 -108 572 622 ;
C 41 ; WX 600 ; N parenright ; B 137 -108 396 622 ;
C 42 ; WX 600 ; N asterisk ; B 212 257 580 607 ;
C 43 ; WX 600 ; N plus ; B 129 44 580 470 ;
C 44 ; WX 600 ; N comma ; B 157 -112 370 122 ;
C 45 ; WX 600 ; N hyphen ; B 152 231 558 285 ;
C 46 ; WX 600 ; N period ; B 238 -15 382 109 ;
Open Source Used In Finesse Software 12.6(1)  15459

C -1 ; WX 600 ; N tcommaaccent ; B 165 -250 561 561 ;
C -1 ; WX 600 ; N logicalnot ; B 155 108 591 369 ;
C -1 ; WX 600 ; N odieresis ; B 102 -15 588 620 ;
C -1 ; WX 600 ; N udieresis ; B 101 -15 575 620 ;
C -1 ; WX 600 ; N notequal ; B 43 -16 621 529 ;
C -1 ; WX 600 ; N gcommaaccent ; B 61 -157 657 708 ;
C -1 ; WX 600 ; N eth ; B 102 -15 639 629 ;
C -1 ; WX 600 ; N zcaron ; B 99 0 624 669 ;
C -1 ; WX 600 ; N ncommaaccent ; B 26 -250 585 441 ;
C -1 ; WX 600 ; N onesuperior ; B 231 249 491 622 ;
C -1 ; WX 600 ; N imacron ; B 95 0 543 565 ;
C -1 ; WX 600 ; N Euro ; B 0 0 0 0 ;
EndCharMetrics
EndFontMetrics

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/Courier-Oblique.afm
No license file was found, but licenses were detected in source scan.

20010904/

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For SVG 1.0:

Namespace:
    http://www.w3.org/2000/svg

Public identifier:
    PUBLIC "

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/dom/svg/resources/svg10.dtd
No license file was found, but licenses were detected in source scan.

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FullName Courier Bold Oblique
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SVG 1.1 Tiny DTD

This is SVG Tiny, a proper subset of SVG.

The Scalable Vector Graphics (SVG)
(Massachusetts Institute of Technology, Institut National de
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Author:  Jun Fujisawa <fujisawa.jun@canon.co.jp>
Revision: $Id: svg11

dimensional graphics in XML.
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Revision: $Id: svg11

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EndKernData
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Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/Times-Roman.afm
No license file was found, but licenses were detected in source scan.

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# version 1.1, a copy of which has been included with this distribution in #
# the LICENSE file.                                                        #
#############################################################################

# This file registers the example Bridge extension as a service for the
# Bridge context.
# org.apache.batik.apps.svgbrowser.XMLInputHandler

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/META-INF/services/org.apache.batik.apps.svgbrowser.SquiggleInputHandler
No license file was found, but licenses were detected in source scan.

StartFontMetrics 4.1
Comment Creation Date: Mon Jun 23 16:28:00 1997
Comment UniqueID 43048
Comment VMusage 41139 52164
fontName Courier-Bold
fullName Courier Bold
FamilyName Courier
Weight Bold
italicAngle 0
IsFixedPitch true
CharacterSet ExtendedRoman
FontBBox -113 -250 749 801
UnderlinePosition -100
UnderlineThickness 50
Version 003.000
The Scalable Vector Graphics (SVG)
(Massachusetts Institute of Technology, Institut National de
Recherche en Informatique et en Automatique, Keio University).

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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>
Revision: $Id: svg11

dimensional graphics in XML.

Copyright 2001, 2002 W3C (MIT, INRIA, Keio), All Rights Reserved.
Revision: $Id: svg11

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/dom/svg/resources/svg11-flat.dtd
No license file was found, but licenses were detected in source scan.

SVG 1.1 Basic DTD

This is SVG Basic, a proper subset of SVG.

The Scalable Vector Graphics (SVG)
(Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University).
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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>
Revision: $Id: svg11

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/dom/svg/resources/svg11-basic.dtd
No license file was found, but licenses were detected in source scan.

#############################################################################
# This file registers the example Bridge extension as a service for the
# Bridge context.
org.apache.batik.extension.svg.BatikBridgeExtension

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/META-INF/services/org.apache.batik.bridge.BridgeExtension

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

cos-nonambig = cos-nonambig: {0} and {1} (or elements from their substitution group) violate "Unique Particle Attribution".

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties

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

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FontName Helvetica-BoldOblique
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FamilyName Helvetica
Weight Bold
ItalicAngle -12
IsFixedPitch false
CharacterSet ExtendedRoman
FontBBox -174 -228 1114 962
UnderlinePosition -100
UnderlineThickness 50
Version 002.000
EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 532
Ascender 718
Descender -207
StdHW 118
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This is SVG Basic, a proper subset of SVG.

The Scalable Vector Graphics (SVG)
(Massachusetts Institute of Technology, Institut National de
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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>
Revision: $Id: svg11
dimensional graphics in XML.
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Revision: $Id: svg11$

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/batik/dom/svg/resources/svg11-basic-flat.dtd

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

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

SVG 1.1 Tiny DTD

This is SVG Tiny, a proper subset of SVG.

The Scalable Vector Graphics (SVG)
(Massachusetts Institute of Technology, Institut National de
Recherche en Informatique et en Automatique, Keio University).

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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>
Revision: $Id: svg11

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Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/Helvetica-Oblique.afm

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Comment VMusage 45775 55535
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FullName ITC Zapf Dingbats
FamilyName ZapfDingbats
Weight Medium
ItallicAngle 0
IsFixedPitch false
CharacterSet Special
FontBBox -1 -143 981 820
UnderlinePosition -100
UnderlineThickness 50
Version 002.000
EncodingScheme FontSpecific
StdHW 28
StdVW 90
StartCharMetrics 202
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C 33 ; WX 974 ; N a1 ; B 35 72 939 621 ;
C 34 ; WX 961 ; N a2 ; B 35 81 927 611 ;
C 35 ; WX 974 ; N a202 ; B 35 72 939 621 ;
C 36 ; WX 980 ; N a3 ; B 35 0 945 692 ;
C 37 ; WX 719 ; N a4 ; B 34 139 685 566 ;
C 38 ; WX 789 ; N a5 ; B 35 -14 755 705 ;
Open Source Used In Finesse Software 12.6(1)  15775

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/ZapfDingbats.afm

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

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Comment VMusage 47727 58752
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FullName Times Italic
FamilyName Times
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UnderlinePosition -100
UnderlineThickness 50
Version 002.000
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Ascender 683
Descender -217
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StdVW 76
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C 34 ; WX 420 ; N quotedbl ; B 144 421 432 666 ;
C 35 ; WX 500 ; N numbersign ; B 2 0 540 676 ;
C 36 ; WX 500 ; N dollar ; B 31 -89 497 731 ;
C 37 ; WX 833 ; N percent ; B 79 -13 790 676 ;
C 38 ; WX 778 ; N ampersand ; B 76 -18 723 666 ;
C 39 ; WX 333 ; N quoteright ; B 151 436 290 666 ;
C 40 ; WX 333 ; N parenleft ; B 42 -181 315 669 ;
C 41 ; WX 333 ; N parenright ; B 16 -180 289 669 ;
C 42 ; WX 500 ; N asterisk ; B 128 255 492 666 ;
C 43 ; WX 675 ; N plus ; B 86 0 590 506 ;
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Open Source Used In Finesse Software 12.6(1)  15791

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1.1616 pciutils 3.5.1-3.el7
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* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/CodecException.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/sctp/package-info.java

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jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/example/socksproxy/DirectClientHandler.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/channel/udt/UdtMessage.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/buffer/ByteBufInputStream.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/example/socksproxy/SocksServerHandler.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/example/udt/echo/bytes/ByteEchoServer.java
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jar/io/netty/buffer/CompositeByteBuf.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/util/internal/logging/Slf4JLogger.java
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jar/io/netty/handler/codec/MessageToMessageDecoder.java
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jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/handler/codec/rtsp/RtspVersions.java
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jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
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jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
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jar/io/netty/handler/codec/CompressionUtils.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/handler/codec/http/websocketx/server/WebSocketServerInitializer.java
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jar/io/netty/handler/compression/PortUnificationServerHandler.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/handler/codec/http/WebSocketServerHandler.java
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jar/io/netty/handler/codec/ReplayingDecoderBuffer.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/example/portunification/PortUnificationServerHandler.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
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 */

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  * /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4.0.23-final-sources-2-
    jar/io/netty/util/internal/logging/FormattingTuple.java

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Handles or intercepts a \link{ChannelInboundInvoker} or \link{ChannelOutboundInvoker} operation, and forwards it to the next handler in a \link{ChannelPipeline}.

Sub-types

{@link ChannelHandler} itself does not provide many methods. To handle a a \link{ChannelInboundInvoker} or \link{ChannelOutboundInvoker} operation you need to implement its sub-interfaces. There are many different sub-interfaces which handles inbound and outbound operations.

But the most useful for developers may be:

- \link{ChannelInboundHandlerAdapter} handles and intercepts inbound operations
- \link{ChannelOutboundHandlerAdapter} handles and intercepts outbound operations

You will also find more detailed explanation from the documentation of each sub-interface on how an event is interpreted when it goes upstream and downstream respectively.

The context object

A \link{ChannelHandler} is provided with a \link{ChannelHandlerContext} object. A \link{ChannelHandler} is supposed to interact with the \link{ChannelPipeline} it belongs to via a context object. Using the context object, the \link{ChannelHandler} can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using \link{AttributeKey}s) which is specific to the handler.

State management

A \link{ChannelHandler} often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```
public interface Message {
    // your methods here
}
```
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        Channel ch = e.getChannel();
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ch.write(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
    ...
}

Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where a unauthenticated client can get
the confidential information:

  // Create a new handler instance per channel.
  // See ChannelInitializer#initChannel(Channel).
  public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
  }

  
  
<h4>Using AttributeKey</h4>

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use AttributeKey's which is provided by
ChannelHandlerContext:

  public interface Message {
    // your methods here
  }
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey&lt;Boolean&gt; auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
        Channel ch = ctx.channel();
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ch.write(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}

Now that the state of the handler is attached to the ChannelHandlerContext, you can add the same handler instance to different pipelines:

public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {
    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}

The @Sharable annotation

In the example above which used an AttributeKey, you might have noticed the @Sharable annotation.

If a ChannelHandler is annotated with the @Sharable annotation, it means you can create an instance of the handler just once and add it to one or more ChannelPipeline's multiple times without a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the [@link ChannelHandler], and
* [@link ChannelPipeline] to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

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* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/nio/NioUdtProvider.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java

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 */
/** *
 * A decoder that splits the received {link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * </p>
 * [link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
* combination.

* \texttt{lengthFieldOffset} = \texttt{0}
* \texttt{lengthFieldLength} = \texttt{2}
* \texttt{lengthAdjustment} = \texttt{0}
* \texttt{initialBytesToStrip} = \texttt{0} (= do not strip header)

* \textbf{BEFORE DECODE (14 bytes) \hspace{2cm} AFTER DECODE (14 bytes)}
* \begin{tabular}{l}
<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>\texttt{0x000C \ &quot;HELLO, WORLD&quot;}</td>
<td>\texttt{0x000C \ &quot;HELLO, WORLD&quot;}</td>
</tr>
</tbody>
</table>
\end{tabular}
* \begin{tabular}{l}
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
* \textbf{BEFORE DECODE (12 bytes) \hspace{2cm} AFTER DECODE (12 bytes)}
* \begin{tabular}{l}
<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>\texttt{0x000C \ &quot;HELLO, WORLD&quot;}</td>
<td>\texttt{&quot;HELLO, WORLD&quot;}</td>
</tr>
</tbody>
</table>
\end{tabular}
* \begin{tabular}{l}
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
* \textbf{BEFORE DECODE (14 bytes) \hspace{2cm} AFTER DECODE (14 bytes)}
* \begin{tabular}{l}
<table>
<thead>
<tr>
<th>Length</th>
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</tr>
</tbody>
</table>
\end{tabular}
* \begin{tabular}{l}
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
* \textbf{BEFORE DECODE (12 bytes) \hspace{2cm} AFTER DECODE (12 bytes)}
* \begin{tabular}{l}
<table>
<thead>
<tr>
<th>Length</th>
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<tbody>
<tr>
<td>\texttt{0x000C \ &quot;HELLO, WORLD&quot;}</td>
<td>\texttt{&quot;HELLO, WORLD&quot;}</td>
</tr>
</tbody>
</table>
\end{tabular}
* \begin{tabular}{l}
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+

* \textbf{2 bytes length field at offset 0, strip header}</h3>
*

* Because we can get the length of the content by calling

* \{@link ByteBuf#readableBytes()\}, you might want to strip the length

* field by specifying \texttt{initialBytesToStrip}. In this example, we

* specified \texttt{2}, that is same with the length of the length field, to

* strip the first two bytes.

* \texttt{lengthFieldOffset} = \texttt{0}
* \texttt{lengthFieldLength} = \texttt{2}
* \texttt{lengthAdjustment} = \texttt{0}
* \texttt{initialBytesToStrip} = \texttt{2} (= the length of the Length field)

* \textbf{BEFORE DECODE (14 bytes) \hspace{2cm} AFTER DECODE (12 bytes)}
* \begin{tabular}{l}
<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>\texttt{0x000C \ &quot;HELLO, WORLD&quot;}</td>
<td>\texttt{&quot;HELLO, WORLD&quot;}</td>
</tr>
</tbody>
</table>
\end{tabular}
* \begin{tabular}{l}
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
* \textbf{BEFORE DECODE (12 bytes) \hspace{2cm} AFTER DECODE (12 bytes)}
* \begin{tabular}{l}
<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
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<tr>
<td>\texttt{0x000C \ &quot;HELLO, WORLD&quot;}</td>
<td>\texttt{&quot;HELLO, WORLD&quot;}</td>
</tr>
</tbody>
</table>
\end{tabular}
* \begin{tabular}{l}
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+

* \textbf{2 bytes length field at offset 0, do not strip header, the length field

* represents the length of the whole message}</h3>
*

* In most cases, the length field represents the length of the message body

* only, as shown in the previous examples. However, in some protocols, the

* length field represents the length of the whole message, including the

* message header. In such a case, we specify a non-zero

* \texttt{lengthAdjustment}. Because the length value in this example message

* is always greater than the body length by \texttt{2}, we specify \texttt{-2} for

* compensation.

* \texttt{lengthFieldOffset} = \texttt{0}
* \texttt{lengthFieldLength} = \texttt{2}
* \texttt{lengthAdjustment} = \texttt{2} (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)          AFTER DECODE (14 bytes)
* +-----------------+-----------------+      +-----------------+-----------------+
* | Length | Actual Content | Length | Actual Content |
* | 0x000E | "HELLO, WORLD" | | 0x000E | "HELLO, WORLD" |
* +-----------------+-----------------+      +-----------------+-----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* | lengthFieldOffset | 2 (= the length of Header 1) |
* | lengthFieldLength | 3 |
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----------------+-----------------+      +-----------------+-----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +-----------------+-----------------+      +-----------------+-----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* lengthAdjustment    = 2 (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----------------+-----------------+      +-----------------+-----------------+
* | Length | Header 1 |  Actual Content |----->| Length | Header 1 |  Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +-----------------+-----------------+      +-----------------+-----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field

* This is a combination of all the examples above. There are the prepended
  header before the length field and the extra header after the length field.
* The prepended header affects the lengthFieldOffset and the extra
  header affects the lengthAdjustment. We also specified a non-zero
  initialBytesToStrip to strip the length field and the prepended
  header from the frame. If you don't want to strip the prepended header, you
  could specify 0 for initialBytesToSkip.
* <pre>
  lengthFieldOffset = 1 (= the length of HDR1)
  lengthFieldLength = 2
  lengthAdjustment = 1 (= the length of HDR2)
  initialBytesToStrip = 3 (= the length of HDR1 + LEN)
  
  BEFORE DECODE (16 bytes)    AFTER DECODE (13 bytes)
  +--------+----------------+      +--------+----------------+
  | HDR1 | Actual Content |----->| HDR2 | Actual Content |
  | 0xCA | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  +--------+----------------+      +--------+----------------+
  </pre>

* 2 bytes length field at offset 1 in the middle of 4 bytes header,
  strip the first header field and the length field, the length field
  represents the length of the whole message

* Let's give another twist to the previous example. The only difference from
  the previous example is that the length field represents the length of the
  whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into lengthAdjustment.
* Please note that we don't need to take the length of HDR2 into account
  because the length field already includes the whole header length.
* <pre>
  lengthFieldOffset = 1
  lengthFieldLength = 2
  lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
  initialBytesToStrip = 3
  
  BEFORE DECODE (16 bytes)    AFTER DECODE (13 bytes)
  +--------+----------------+      +--------+----------------+
  | HDR1 | Actual Content |----->| HDR2 | Actual Content |
  | 0xCA | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  +--------+----------------+      +--------+----------------+
  </pre>

* @see LengthFieldPrepender
*/

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 */

/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
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1.1629 openssh 5.6

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*/

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

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

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

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0 /* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#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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   - The make-ssh-known-hosts script is no longer included
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* @version 3.0 (December 2000)
* 
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* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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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)
#endif /* HAVE_WAITPID */

/* Prototype */
pid_t waitpid(int, int *, int);
1.1630 jetty-continuation 8.1.10.v20130312
1.1630.1 Available under license:
   Apache Software License - Version 2.0

1.1631 httpcomponents-core 4.3
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/stackmap/MapMaker.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/LocalVariableAttribute.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CannotCompileException.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformWriteField.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ConstantAttribute.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/MethodDecl.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/Loader.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/StackMapTable.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Declarator.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Stmtnt.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/Expr.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/ClassClassPath.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/scopedpool/SoftValueHashMap.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/web/Viewer.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformNewClass.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformAfter.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/InstructionPrinter.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ConstPool.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/RemoteRef.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/SyntaxException.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtNewNestedClass.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtNewMethod.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/URLClassPath.java
1.1638 cxf-rt-rs-extension-providers 2.7.14
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### 1.1639 jemalloc 3.6.0-1.el7

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### 1.1640 plexus-classworlds 1.1

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/*
$Id: UberJarRealmClassLoader.java 112 2004-11-03 17:37:23Z mhw $
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$Id: Handler.java 115 2005-07-03 15:23:59Z jvanzyl $

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* /opt/cola/permits/1136703427_1613865017.18/0/classworlds-1-1-sources-4-jar/org/codehaus/classworlds/uberjar/protocol/jar/JarUrlConnection.java
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/* $Id: DefaultClassRealm.java 94 2004-08-09 22:00:16Z jvanzyl $ */

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Std: ConfigurationException.java 78 2004-07-01 13:59:13Z jvanzy1 $

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* /opt/cola/permits/1136703427_1613865017.18/0/classworlds-1-1-sources-4-
jar/org/codehaus/classworlds/ConfigurationException.java
No license file was found, but licenses were detected in source scan.

/*

$Id: EmbeddedLauncher.java 78 2004-07-01 13:59:13Z jvanzyl $

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/*
$Id: RealmClassLoader.java 114 2005-07-03 15:21:02Z jvanzyl $

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jar/org/codehaus/classworlds/RealmClassLoader.java
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$Id: ClassWorld.java 78 2004-07-01 13:59:13Z jvanzyl $

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/*
$Id: ClassRealm.java 94 2004-08-09 22:00:16Z jvanzyl $

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$Id: InitialClassLoader.java 78 2004-07-01 13:59:13Z jvanzyl $

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Found in path(s):
* /opt/cola/permits/1136703427_1613865017.18/0/classworlds-1-1-sources-4-jar/org/codehaus/classworlds/uberjar/boot/InitialClassLoader.java
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/*
$Id: Launcher.java 108 2004-11-02 18:41:08Z mhw $

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/*
$Id: Bootstrapper.java 78 2004-07-01 13:59:13Z jvanzyl $

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$Id: Entry.java 89 2004-07-18 00:40:00Z dandiep $

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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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Julian Seward, Cambridge, UK.
jseward@bzip.org
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1.1670 xmlbeans-xpath 2.3.0

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Found in path(s):
* /opt/cola/permits/1136687857_1613859467.34/0/javax-inject-2-3-0-b10-sources-4-jar/pom.xml

1.1678 libmnl 1.0.3 7.el7
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The snowball stemmers in
```
 analysis/common/src/java/net/sf/snowball
```
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
```
 analysis/common/src/resources/org/apache/lucene/analysis/snowball
```
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
http://snowball.tartarus.org/

The KStem stemmer in
```
 analysis/common/src/org/apache/lucene/analysis/en
```
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.

The Arabic, Persian, Romanian, Bulgarian, and Hindi analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
```
 analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
 analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
 analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
 analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
 analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
```

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
```
 analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
 analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
 analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
 analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
 analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
 analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
 analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
 analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
 analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
 analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
 analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
 analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java
```

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The Polish analyzer (stempel) comes with a default
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

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**1.1680 network-manager 1.18.8-1.el7**

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object 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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c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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For an executable, the required form of the "work that uses the
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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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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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1.1686 node.js 10.20.1

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[**Download JSON**](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids.json)

## Use as a JavaScript Library


[![devDependency Status](https://david-dm.org/shinnn/spdx-license-ids/dev-status.svg)](https://david-dm.org/shinnn/spdx-license-ids#info=devDependencies)

### Installation

#### Package managers

#### [npm](https://www.npmjs.com/)

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Open Source Used In Finesse Software 12.6(1) 16454
npm install spdx-license-ids
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//  https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexoretabletash@gmail.com
//  https://github.com/inexoretabletash/polyfill

// ES3/ES5 implementation of the Khronos Typed Array Specification
//  Ref: http://www.khronos.org/registry/typedarray/specs/latest/
//  Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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var parse = require('spdx-expression-parse')
var assert = require('assert')

var firstAST = {
  left: { license: 'LGPL-2.1' },
  conjunction: 'or',
  right: {
    left: { license: 'BSD-3-Clause' },
    conjunction: 'and',
    right: { license: 'MIT' } }
}

assert.deepEqual(parse('(LGPL-2.1 OR BSD-3-Clause AND MIT)'), firstAST)

var secondAST = {
  left: { license: 'MIT' },
  conjunction: 'and',
  right: {

```
left: {
  license: 'LGPL-2.1',
  plus: true,
  conjunction: 'and',
  right: [ license: 'BSD-3-Clause' ] }
}

assert.deepEqual(
  parse('(MIT AND (LGPL-2.1+ AND BSD-3-Clause))'),
  secondAST)

// We handle all the bare SPDX license and exception ids as well.
require('spdx-license-ids').forEach(function(id) {
  assert.deepEqual(
    parse(id),
    { license: id })
  require('spdx-exceptions').forEach(function(e) {
    assert.deepEqual(
      parse(id + ' WITH ' + e),
      { license: id, exception: e }) }) })

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var assert = require('assert');

assert.equal(correct('mit'), 'MIT')

assert.equal(correct('Apache 2'), 'Apache-2.0')

assert(correct('No idea what license') === null)
```

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
=======================================================================
Copyright (C) 2012 by Jun Woong.
This package is a JavaScript porting of `wcwidth()` implementation [by Markus Kuhn](http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c).

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validate-npm-package-license
================================

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
valid('Apache 2.0'),
{
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
        'license should be ' +
        'a valid SPDX license expression (without "LicenseRef"), ' +
        '"UNLICENSED", or ' +
        '"SEE LICENSE IN <filename>"'.
        'license is similar to the valid expression "Apache-2.0"'
    ]
}]
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
valid('(GPL-3.0 OR BSD-2-Clause)'),
validSPDXExpression
);
```

... except if they contain ` LicenseRef `:

```javascript
var warningAboutLicenseRef = {
    validForOldPackages: false,
    validForNewPackages: false,
    SPDX: true,
    warnings: [
        'license should be ' +
        'a valid SPDX license expression (without "LicenseRef"), ' +
        '"UNLICENSED", or ' +
        '"SEE LICENSE IN <filename>"'.
    ]
};
```
If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);
```

```javascript
assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```
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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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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/JsonAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java

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  jar/com/google/gson/internal/$Gson$Types.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/stream/JsonReader.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/LazilyParsedNumber.java  
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java  
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TimeTypeAdapter.java  
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/UnsafeAllocator.java  
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonSyntaxException.java  
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/LongSerializationPolicy.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonStreamParser.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
*/

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* @return true if the encoder provides end-to-end message confidentiality, false if not
* @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its ability
to provide message confidentiality.
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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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 */
/**
 * Confidential flag.
 */

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1.1711 jersey-server 2.13

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1.1712 xerces-j 2.5.0

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*/
/*
Sld: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;

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

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * 
 * Futurework: have this read version info from jar manifest.
 * 
 * @return String denoting our current version
 */
public static String getVersion() {
    return getProduct() + "" + getImplementationLanguage() + ""
           + getMajorVersionNum() + "." + getReleaseVersionNum() + "."
           + (getDevelopmentVersionNum() > 0) ? 
             ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum());
}
/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

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

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

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

/**
 * Release Number.
 * Release number. This changes when:
* - a new set of functionality is to be added, eg, implementation of a new W3C specification.
* - API or behaviour change.
* - its designated as a reference release.
*/

public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

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

public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

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

public static int getDevelopmentVersionNum()
{
    try {
        if (((new String("@version.DEVELOPER@"))).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    }
}
Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src
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*/
/**
* This is a special exception that is used to stop parsing when
* search for an element. For instance, when searching for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java
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*} catch (NumberFormatException nfe) {
  return 0;
}
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*/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/XPathLexer.java
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*/

/*
*/

/**
* Administrative class to keep track of the version number of
* the Serializer release.
* @xsl.usage general
*/
public final class Version
{

/**
* Get the basic version string for the current Serializer.
* Version String formatted like
* `<CODE>"<B>Serializer</B> <B>Java</B> v.r\[dd\] <B>D</B>nn\]"</CODE>.
* Futurework: have this read version info from jar manifest.
* @return String denoting our current version
*/
public static String getVersion()
{
    return getProduct() + " " + getImplementationLanguage() + " "
        + getMajorVersionNum() + "." + getReleaseVersionNum() + "."
        + (getDevelopmentVersionNum() > 0) ?
        ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum());
}
/**
* Print the processor version to the command line.
* @param argv command line arguments, unused.
*/
public static void main(String argv[])
{
    System.out.println(getVersion());
}
/**
* Name of product: Serializer.
*/
public static String getProduct()
{
    return "Serializer";
}
/**
* Implementation Language: Java.
*/
public static String getImplementationLanguage()
{
    return "Java";
}
/**
* Major version number.
* Version number. This changes only when there is a
* significant, externally apparent enhancement from
* the previous release. 'n' represents the n'th
Clients should carefully consider the implications of new versions as external interfaces and behaviour may have changed.

```java
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}
```

/*
* Release Number.
* Release number. This changes when:
* - a new set of functionality is to be added, eg,
*   implementation of a new W3C specification.
* - API or behaviour change.
* - its designated as a reference release.
*/

```java
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}
```

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

```java
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}
```

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

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

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

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

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 */

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

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
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// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

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

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

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/compiler/FunctionTable.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_html.properties
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*/

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

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

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

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

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

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

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

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

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

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

dpublic int getLineNumber() {
    return _lineNumber;
}

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

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

dpublic void setMultiDocument(boolean flag) {
    _xslt.setMultiDocument(flag);
}

dpublic void setCallsNodeset(boolean flag) {
    _xslt.setCallsNodeset(flag);
}

dpublic void setHasIdCall(boolean flag) {
    _xslt.setHasIdCall(flag);
}
/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "@*[namespace-uri() = 'uri'], respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */

public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;

    if (test == null) {  // "*"
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

        return new StepPattern(axis, nodeType, predicates);
    } else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();
        return new StepPattern(axis, nodeType, predicates);
    } else {
        QName name = (QName)test;
        boolean setPriority = false;

        if (axis == Axis.NAMESPACE) {
            nodeType = (name.toString().equals("*")) ? -1 :
                _xslt.registerNamespacePrefix(name);
        } else {
            final String uri = name.getNamespace();
            final String local = name.getLocalPart();
            final QName namespace_uri =
                _parser.getQNameIgnoreDefaultNs("namespace-uri");

            // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                if (predicates == null) {
                    predicates = new Vector(2);
                }
                if (predicates == null) {
                    predicates = new Vector(2);
                }
            } else {
                final String uri = name.getNamespace();
                final String local = name.getLocalPart();
                final QName namespace_uri =
                    _parser.getQNameIgnoreDefaultNs("namespace-uri");
            }
        }
    }
    return new StepPattern(axis, nodeType, predicates);
}

// Priority is set by hand if no other predicates exist
setPriority = (predicates.size() == 0);
predicates.add(
    new Predicate(
        new EqualityExpr(Operators.EQ,
        new NamespaceUriCall(namespace_uri),
        new LiteralExpr(uri)));
}

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

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

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

return result;
}

public int findNodeType(int axis, Object test) {
    if (test == null) {  // *
        return (axis == Axis.ATTRIBUTE) ?
            NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }
    else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    }
    else {
        QName name = (QName)test;

        if (axis == Axis.NAMESPACE) {
            return (name.toString().equals("*")) ? -1
                : _xslt.registerNamespacePrefix(name);
        }
    }
    return result;
}
if (name.getNamespace() == null) {
    final String local = name.getLocalPart();

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

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

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

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
// Is it a local var or param?
final SyntaxTreeNode result = _parser.lookupVariable(name);
if (result != null)
    return(result);
else
    return(_symbolTable.lookupName(name));
}

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

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

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

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

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
            axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}
/*
terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QName;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

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

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;
precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

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

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

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

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

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
    {: RESULT = new IdPattern(l);
        parser.setHasIdCall(true);
    :}
KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
{: RESULT = new KeyPattern(l1, l2); :};

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

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

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

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

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

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

| ProcessingInstructionPattern:pip
{: RESULT = pip; :}

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

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

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

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

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

NodeTestPattern ::= NameTestPattern: nt
{
| NODE
| RESULT = nt; :
}

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

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

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

NameTestPattern ::= STAR
{
| QName: qn
| RESULT = qn; :
}

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

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

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

| Predicate: p Predicates: pp
| pp.insertElementAt(p, 0); RESULT = pp; :

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

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

Expr ::= OrExpr:ex

{: RESULT = ex; :}

OrExpr ::= AndExpr:ae

{: RESULT = ae; :}

| OrExpr:oe OR AndExpr:ae

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

AndExpr ::= EqualityExpr:e

{: RESULT = e; :}

| AndExpr:ae AND EqualityExpr:ee

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

EqualityExpr ::= RelationalExpr:re

{: RESULT = re; :}

| EqualityExpr:ee EQ RelationalExpr:re

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

| EqualityExpr:ee NE RelationalExpr:re

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

RelationalExpr ::= AdditiveExpr:ae

{: RESULT = ae; :}

| RelationalExpr:re LT AdditiveExpr:ae

{: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

| RelationalExpr:re GT AdditiveExpr:ae

{: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

| RelationalExpr:re LE AdditiveExpr:ae

{: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

| RelationalExpr:re GE AdditiveExpr:ae

{: RESULT = new RelationalExpr(Operators.GE, re, ae); :}

AdditiveExpr ::= MultiplicativeExpr:me

{: RESULT = me; :}

| AdditiveExpr:ae PLUS MultiplicativeExpr:me
{ : RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); : }

AdditiveExpr:ae MINUS MultiplicativeExpr:me
{ : RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); : }

MultiplicativeExpr ::= UnaryExpr:ue
{ : RESULT = ue; : }

| MultiplicativeExpr:me MULT UnaryExpr:ue
{ : RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); : }

| MultiplicativeExpr:me DIV UnaryExpr:ue
{ : RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); : }

| MultiplicativeExpr:me MOD UnaryExpr:ue
{ : RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); : }

UnaryExpr ::= UnionExpr:ue
{ : RESULT = ue; : }

| MINUS UnaryExpr:ue
{ : RESULT = new UnaryOpExpr(ue); : }

UnionExpr ::= PathExpr:pe
{ : RESULT = pe; : }

| PathExpr:pe VBAR UnionExpr:rest
{ : RESULT = new UnionPathExpr(pe, rest); : }

PathExpr ::= LocationPath:lp
{ : RESULT = lp; : }

| FilterExpr:fexp
{ : RESULT = fexp; : }

| FilterExpr:fexp SLASH RelativeLocationPath:rlp
{ : RESULT = new FilterParentPath(fexp, rlp); : }

| FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{ :
  // Expand '//' into '/descendant-or-self::node()' or
  // into /descendant-or-self::*
  //
  int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
  { }

nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
FilterParentPath fpp = new FilterParentPath(fexp, step);
fpp = new FilterParentPath(fpp, rlp);
if (fexp instanceof KeyCall == false) {
  fpp.setDescendantAxis();
}
RESULT = fpp;
});

LocationPath ::= RelativeLocationPath:rlp
 {: RESULT = rlp; :}

| AbsoluteLocationPath:alp
 {: RESULT = alp; :};

RelativeLocationPath ::= Step:step
 {: RESULT = step; :}

| RelativeLocationPath:rlp SLASH Step:step
 {:
 if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
   RESULT = step; // Remove '.' from the middle
 }
 else if (((Step) step).isAbbreviatedDot()) {
   RESULT = rlp; // Remove '.' from the end
 }
 else {
   RESULT = new ParentLocationPath((RelativeLocationPath) rlp, step);
 }
 :}

| AbbreviatedRelativeLocationPath:arlp
 {: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
 {: RESULT = new AbsoluteLocationPath(); :}

| SLASH RelativeLocationPath:rlp
 {: RESULT = new AbsoluteLocationPath(rlp); :}

| AbbreviatedAbsoluteLocationPath:aalp
 {: RESULT = aalp; :};

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp D SLASH Step:step
 {:
final Step right = (Step)step;
final int axis = right.GetAxis();
final int type = right.GetNodeType();
final Vector predicates = right.GetPredicates();

if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
    // Compress '/child:E' into 'descendant::E' - if possible
    if (predicates == null) {
        right.setAxis(Axis.DESCENDANT);
        if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
            RESULT = right;
        } else {
            // Expand 'rlp//child::E' into 'rlp/descendant::E'
            RelativeLocationPath left = (RelativeLocationPath)rlp;
            RESULT = new ParentLocationPath(left, right);
        }
    } else {
        // Expand './/step' -> 'descendant-or-self::*//step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        RESULT = new ParentLocationPath(left, right);
    }
} else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*//step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step left = new Step(Axis.DESCENDANTORSELF,
                         DTM.ELEMENT_NODE, null);
    RESULT = new ParentLocationPath(left, right);
} else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*//node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
                            DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
} else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
                           DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
ParentLocationPath ppl = new ParentLocationPath(middle, right);
RESULT = new ParentLocationPath(left, ppl);
}
});

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
{:
  //
  // Expand '// into '/descendant-or-self::node()/ or
  // into /descendant-or-self::*/
  //
  int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
    {
      nodeType = DTM.ELEMENT_NODE;
    }
  final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
  RESULT = new AbsoluteLocationPath(parser.insertStep(step,
    (RelativeLocationPath) rlp));
  :};

Step ::= NodeTest:ntest
{:
  if (ntest instanceof Step) {
    RESULT = (Step)ntest;
  }
  else {
    RESULT = new Step(Axis.CHILD,
      parser.findNodeType(Axis.CHILD, ntest),
      null);
  }
:}

| NodeTest:ntest Predicates:pp
{:
  if (ntest instanceof Step) {
    Step step = (Step)ntest;
    step.addPredicates(pp);
    RESULT = (Step)ntest;
  }
  else {
    RESULT = new Step(Axis.CHILD,
      parser.findNodeType(Axis.CHILD, ntest), pp);
  }
:}
AxisSpecifier ::= AxisName:an DCOLON
    { : RESULT = an; : }
| PARENT                  |
| : RESULT = new Integer(Axis.PARENT); : |

| PRECEDING              |
| : RESULT = new Integer(Axis.PRECEDING); : |

| PRECEDINGSIBLING       |
| : RESULT = new Integer(Axis.PRECEDINGSIBLING); : |

| SELF                    |
| : RESULT = new Integer(Axis.SELF); : |

AbbreviatedStep ::= DOT
| : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); : |

| DDOT                   |
| : RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); : |

FilterExpr ::= PrimaryExpr:primary
| : RESULT = primary; : |

| PrimaryExpr:primary Predicates:pp |
| : RESULT = new FilterExpr(primary, pp); : |

PrimaryExpr ::= VariableReference:vr
| : RESULT = vr; : |

| LPAREN Expr:ex RPAREN     |
| : RESULT = ex; : |

| Literal:string           |
| : | /*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/ String namespace = null;
final int index = string.lastIndexOf(':

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
    : new LiteralExpr(string, namespace); : |
long value = num.longValue();
if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
    RESULT = new RealExpr(value);
} else {
    if (num.doubleValue() == -0)
        RESULT = new RealExpr(num.doubleValue());
    else if (num.intValue() == 0)
        RESULT = new IntExpr(num.intValue());
    else if (num.doubleValue() == 0.0)
        RESULT = new RealExpr(num.doubleValue());
    else
        RESULT = new IntExpr(num.intValue());
}

RESULT = new RealExpr(num.doubleValue());

RESULT = fc;

VariableReference ::= DOLLAR VariableName:varName
{
    // An empty qname prefix for a variable or parameter reference
    // should map to the null namespace and not the default URI.
    SyntaxTreeNode node = parser.lookupName(varName);
    if (node != null) {
        if (node instanceof Variable) {
            RESULT = new VariableRef((Variable)node);
        } else if (node instanceof Param) {
            RESULT = new ParameterRef((Param)node);
        } else {
            RESULT = new UnresolvedRef(varName);
        }
    }
    if (node == null) {
        RESULT = new UnresolvedRef(varName);
    }
};

RESULT = new UnresolvedRef(varName);
FunctionCall ::= FunctionName::fname LPAREN RPAREN

{: 

if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
    RESULT = new CurrentCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}

else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
}

else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}

else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

}
if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
    parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Open Source Used In Finesse Software 12.6(1), "trans:cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
} else {
    RESULT = new FunctionCall(fname, argl);
}

NonemptyArgumentList ::= Argument:arg
    | Argument:arg COMMA NonemptyArgumentList:argl
    
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;

FunctionName ::= QName:fname
VariableName ::= QName:vname
  {:
    RESULT = vname;
  :}

Argument ::= Expr:ex
  {:
    RESULT = ex; :
  :}

NodeTest ::= NameTest:nt
  {:
    RESULT = nt; :
  :}

    | NODE
      {:
        RESULT = new Integer(NodeTest.ANODE); :
      :}

    | TEXT
      {:
        RESULT = new Integer(NodeTest.TEXT); :
      :}

    | COMMENT
      {:
        RESULT = new Integer(NodeTest.COMMENT); :
      :}

    | PIPARAM LPAREN Literal:l RPAREN
      {:
        QName name = parser.getQNameIgnoreDefaultNs("name");
        Expression exp = new EqualityExpr(Operators.EQ,
          new NameCall(name),
          new LiteralExpr(l));
        Vector predicates = new Vector();
        predicates.addElement(new Predicate(exp));
        RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
        :
      :}

    | PI
      {:
        RESULT = new Integer(NodeTest.PI); :
      :}

NameTest ::= STAR
  {:
    RESULT = null; :
  :}

    | QName:qn
      {:
        RESULT = qn; :
      :}

QName ::= QName:qname
  {:
    RESULT = parser.getQNameIgnoreDefaultNs(qname); :
  :}

    | DIV
{: RESULT = parser.getNameIgnoreDefaultNs("div"); } |

| MOD |
{: RESULT = parser.getNameIgnoreDefaultNs("mod"); } |

| KEY |
{: RESULT = parser.getNameIgnoreDefaultNs("key"); } |

| ANCESTOR |
{: RESULT = parser.getNameIgnoreDefaultNs("child"); } |

| ANCESTORORSELF |
{: RESULT = parser.getNameIgnoreDefaultNs("ancestor-or-self"); } |

| ATTRIBUTE |
{: RESULT = parser.getNameIgnoreDefaultNs("attribute"); } |

| CHILD |
{: RESULT = parser.getNameIgnoreDefaultNs("child"); } |

| DESCENDANT |
{: RESULT = parser.getNameIgnoreDefaultNs("descendant"); } |

| DESCENDANTORSELF |
{: RESULT = parser.getNameIgnoreDefaultNs("descendant-or-self"); } |

| FOLLOWING |
{: RESULT = parser.getNameIgnoreDefaultNs("following"); } |

| FOLLOWINGSIBLING |
{: RESULT = parser.getNameIgnoreDefaultNs("following-sibling"); } |

| NAMESPACE |
{: RESULT = parser.getNameIgnoreDefaultNs("namespace"); } |

| PARENT |
{: RESULT = parser.getNameIgnoreDefaultNs("parent"); } |

| PRECEDING |
{: RESULT = parser.getNameIgnoreDefaultNs("preceeding"); } |

| PRECEDINGSIBLING |
{: RESULT = parser.getNameIgnoreDefaultNs("preceeding-sibling"); } |

| SELF |
{: RESULT = parser.getNameIgnoreDefaultNs("self"); } |

| ID |
{}: RESULT = parser.getNameIgnoreDefaultNs("id"); :{};

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler(xpath.cup
No license file was found, but licenses were detected in source scan.

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 * /
 // is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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 * /

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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 */

/**
 * Execute the proprietary document-location() function, which returns a node set of documents.
 * @xsl.usage advanced
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java
No license file was found, but licenses were detected in source scan.

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 */

* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;

%%
%cup
%unicode
%class XPathLexer
%yyeof
%
{
int last;

void initialize() {
    last = -1;
}

static boolean isWhitespace(int c) {
    return (c == ' ' || c == '	' || c == '' || c == '
'  || c == '');
}

/**
* If symbol is not followed by `::` or `(', then treat it as a
* name instead of an axis or function (Jira-1912).
*/
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;
    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    }
    // If end of buffer, can't disambiguate :
    if (index >= yy_buffer_read) {
        // Can't disambiguate, so return as symbol
        return new Symbol(ss);
    }
    // Return symbol if next token is `::` or `(`
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ' ');
yy_buffer[index] == '(' ?
newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:    // first token
case sym.ATSIGN:  
case sym.DCOLON:
case sym.LPAREN:
case sym.LBRACK:
case sym.COMMA:
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLASH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * multiplication operator instead of a wildcard
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
case sym.ATSIGN:
case sym.DCOLON:  
    return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);
}
case sym.LPAREN:
case sym.LBRACK:
case sym.COMMA:
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLASH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.STAR);
}
return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
%
%eofval{
    return newSymbol(sym.EOF);
%eofval}
Letter={BaseChar}|{Ideographic}

BaseChar=[u0041-u005Aa-zÀ-ÖØ-ÿĀ-ıĴ-
ľŁ-ňŊ-žƀ-ǃǍ-Ǵ/u01F5Ƕ/u0217/u0250-
/u02A8/u02BBˁ/u0386/u0388-Ί/u038Cu038E-u03A1/u03A3-u03CE/u03D0-
/u03D6/u03DA/u03DE/u03E0/u03E2-u04F4/u04F5ў-u0481/u0490-u04C4/u04C7-
ӈ/u04CBӌ/u04D0/u04EBӮ/u04F5/u04F8-ӹ/u0531-
Ֆ/u0559/u0561-u0586/u05D0/u05EA/u05F0-u05F2/u0621-u063A/u0641-u064A/u0671-
/u067B/u06BA-u06BE/u06C0-u06CE/u06D0/u06D3/u06D5/u06E5-u06E6/u0905-u0939/u093D/u0958-u0961/u0985-
ঌ/u098F/u0990/u0993-u09B8/u09B9/u09BD/u09DF-
/u09E1/u09F0-u09F1/u0A05-u0A0A/u0A0F-u0A10/u0A13-u0A28/u0A2A-u0A30/u0A32-u0A33/u0A35-
/u0A36/u0A38-u0A39/u0A5Cu0A5Eu0A72-u0A74/u0A85-u0A8Bu0A8Du0A8F-u0A91/u0A93-
/u0AA8/u0AB0/u0AB2-u0AB3/u0AB5-u0AB9/u0ABD/u0AE0/u0B05-u0B0Cu0B0F-u0B10/u0B13-
/u0B28/u0B2A-u0B30/u0B32-u0B33/u0B36-u0B39/u0B3D/u0B5C-u0B5Du0B5F-u0B61/u0B85-
/u0B8A/u0B8E/u0B90/u0B92-u0B95/u0B99-u0B9A/u0B9Cu0B9E-u0B9F/u0BA3-u0BA4/u0BAA-
/u0BAA/u0BAE/u0BB7-u0BB9/u0C05-u0C0Cu0C0E-u0C10/u0C12-u0C28/u0C2A-u0C33/u0C35-
/u0C39/u0C60-u0C61/u0C85-u0C8Cu0C8E-u0C90/u0C92-u0CA8/u0CAA-u0CB3/u0CB5-
/u0CB9/u0CDFu0CE0-u0CE1/u0D05-u0D0Cu0D0E-u0D10/u0D12-u0D28/u0D2A-u0D39/u0D60-
/u0D61/u0E01-u0E2Eu0E30-u0E32-u0E33u0E40-u0E45/u0E58-u0E82/u0E84/u0E87-
/u0E88/u0E8Au0E8D/u0E94-u0E97/u0E99-u0EFu0EA1-u0EA3/u0EA5/u0EA7u0EA9-u0EBA/u0EAD-
/u0EAE/u0EB0/u0EB2-u0EB3/u0EBDu0EC0-u0EC4/u0F40-u0F47/u0F49-u0F69/u0A0-u0C5/u0D0-
/u0F6u/u0H0/u0H2-u0H5/u0H9u0H9E-u0H9F/u0H00-u0H02/u0H04-u0H06/u0H08-u0H12/u0H14-
/u0H18/u0H20/u0H22-u0H24/u0H26-u0H28/u0H2A-u0H2C-u0H31/u0H33/u0H35-
/u0H37/u0H39/u0H40/u0H42/u0H44-u0H46/u0H48-u0H4A-u0H4C-u0H4E-u0H50-
/u0H52/u0H54-u0H56/u0H58/u0H5A-u0H5C-u0H5E-u0H60/u0H62/u0H64-u0H66/u0H68-
/u0H6A/u0H6C-u0H6E-u0H70/u0H72-u0H74/u0H76-u0H78/u0H7A-u0H80/u0H82-
/u0H84/u0H86-u0H88/u0H8A-u0H8C-u0H8E-u0H90-u0H92-u0H94-u0H96-u0H98-
/u093C/u093E-u094Cu094Du0951-u0954/u0962-u0963/u0981-
/u0983/u09BCu09BE/u09BF-u09C0/u09C7-u09C8/u09CB-u09CD/u09D7/u09E2-
/u09E3/u0A02/u0A3Cu0A3 u0A4/u0A42/u0A47-u0A48/u0A4B-u0A4u0A70-u0A71/u0A81-
/u0A83/u0ABCu0ABE-u0AC5/u0AC7-u0AC9/u0ACB-u0ACDu0AB0-u0B03u0B3u0B3E-u0B43u0B47-
/u0B48u0B4B-u0B4Du0B56-u0B57u0B82-u0B83u0BBE-u0BC2u0BC6-u0BC8u0BCA-
/u0BCDu0BD7u0C01-u0C03u0C3E-u0C44u0C46-u0C48u0C4A-u0C4Du0C55-u0C56u0C82-
/u0C83u0CBE-u0CC4u0CC6-u0CC8u0CCA-u0CCDu0CD5-u0CD6u0CD9-u0D02-u0D30u0D3E-u0D43u0D46-
/u0D48u0D4A-u0D4Du0D57u0E31-u0E34-u0E3Au0E47-u0E4Eu0EB1-u0EB4-u0EB9u0EBB-
/u0EBCu0EC8-u0ECDu0F18-u0F19u0F35u0F37u0F39u0F3Eu0F71-u0F84u0F86-u0F8Bu0F90-

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"comment()" { return newSymbol(sym.COMMENT); }
"comment"+[ \t\n]+"()" { return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()" { return newSymbol(sym.PI); }
"processing-instruction"+[ \t\n]+"()" { return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following" { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace" { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent" { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding" { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self" { return disambiguateAxisOrFunction(sym.SELF); }
"[" { return newSymbol(sym.LBRACK); }
"]" { return newSymbol(sym.RBRACK); }
"(" { return newSymbol(sym.LPAREN); }
")" { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\\"]*\" { return newSymbol(sym.LITERAL, yytext().substring(1, yytext().length() - 1)); }
\'[^\\']*\' { return newSymbol(sym.LITERAL, yytext().substring(1, yytext().length() - 1)); }
{Digit}+ { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+\."{Digit}*\? { return newSymbol(sym.REAL, new Double(yytext())); }
\."{Digit}+ { return newSymbol(sym.REAL, new Double(yytext())); }
\" { return newSymbol(sym.DOT); }
\(\[NCName]\:"\)?\[NCName\] { return newSymbol(sym.QNAME, yytext()); }
\(\[NCName]\:"\)?"\" { return newSymbol(sym.QNAME, yytext()); }
\(\[NCName\]":"\)?\"\" { return newSymbol(sym.QNAME, yytext()); }
\[\t\n] { /* ignore white space. */ }
{ } throw new Exception(yytext()); }

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.0900/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/xpath.lex
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*/

package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */

public class XSLProcessorVersion
{
    /**
     * Print the processor version to the command line.
     *
     * @param argv command line arguments, unused.
     */
    public static void main(String argv[])
    {
        System.out.println(S_VERSION);
    }

    /**
     * Constant name of product.
     */
    public static final String PRODUCT = "Xalan";

    /**
     * Implementation Language.
     */
    public static final String LANGUAGE = "Java";
}
/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 */
* Each 'D' drops can contain functional enhancements as
* well as defect fixes. 'D' drops may not be as stable as
* the final releases.
 */

public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B>
 * v.r[.dd] <B>D</B><B>n</B>n" </CODE>.
 * <P>Semantics of the version string are identical to the Xerces project.</P>
 */

public static final String S_VERSION = PRODUCT + " " + LANGUAGE + " " + VERSION + "." + RELEASE + "." + DEVELOPMENT > 0 ? ("D" + DEVELOPMENT) : ("" + MAINTENANCE);

}

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.src

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
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// Proprietary, built in functions
/** current function string (Proprietary). */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/operations/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
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// Proprietary, built in functions
/** current function string (Proprietary). */

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jar/org/apache/xalan/transformer/QueuedEvents.java
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jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/runtime/MessageHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/KeyIndex.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/ElemDesc.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/CurrentCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xpath/axes/WalkingIteratorSorted.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWhen.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ja.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstring.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TrAXFilter.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/LoadDocument.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/objectfactory/ObjectFactory.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/TransformerFactoryImpl.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemLiteralResult.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NodeSorter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformState.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/UnaryOperation.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_cs.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/CollatorFactoryBase.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TrAXFilter.java

Open Source Used In Finesse Software 12.6(1) 16915
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncCeiling.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XSLTSchema.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/XBooleanStatic.java
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1.1714 librabbitmq 0.7.1

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gz/Distrotech-tftp-hpa-f603e8d/tftpd/misc.c
* /opt/ws_local/PERMITS_SQL/1066869420_1596587302.06/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-targ
gz/Distrotech-tftp-hpa-f603e8d/tftpd/remap.c
* /opt/ws_local/PERMITS_SQL/1066869420_1596587302.06/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-targ
gz/Distrotech-tftp-hpa-f603e8d/tftpd/remap.h
* /opt/ws_local/PERMITS_SQL/1066869420_1596587302.06/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-targ
gz/Distrotech-tftp-hpa-f603e8d/tftpd/recvfrom.h
* /opt/ws_local/PERMITS_SQL/1066869420_1596587302.06/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-targ
gz/Distrotech-tftp-hpa-f603e8d/tftpd/tftpd.h
* /opt/ws_local/PERMITS_SQL/1066869420_1596587302.06/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-targ
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*/

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* /opt/ws_local/PERMITS_SQL/1066869420_1596587302.06/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-targ-
gz/Distrotech-tftp-hpa-f603e8d/tftp/main.c
* /opt/ws_local/PERMITS_SQL/1066869420_1596587302.06/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-targ-
gz/Distrotech-tftp-hpa-f603e8d/tftp/tftpsubs.c

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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
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

   If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a 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
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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When a program is linked with a library, whether statically or using
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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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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.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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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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directing the user to the copy of this License. Also, you must do one
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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.1734 d-conf 0.28.0 4.el7

1.1735 linux-kernel 4.9.118
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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.iovcount != 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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*
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*
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*
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* Purdue University
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 * This section comes from GLIBC 2.2. It is used only when the dialect
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 */

/* Definitions for data structures and routines for the regular
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Mesa 3-D graphics library
Version: 7.0

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will lead to faster development of free 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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* M. Welsh, 6 July 1996

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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(If you think you should be in this list, but you are not, drop a
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1.1759 atk 2.28.1 1.el7

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##-*-makefile-*-##

```make
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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_SOOPYPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "\"s/\$(^*)\(\.o\[ \:\]*/\1.o $@ : /g\" > $@;\" \\
[ -s $@ ] || rm -f $@' 

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "\"s/\$(^*)\(\.o\[ \:\]*/\1.o $@ : /g\" > $@;\"
[ -s $@ ] || rm -f $@' 

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {<F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.1761 commons-beanutils-core 1.8.3

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* /opt/cola/permits/1136045252_1613665048.22/0/json-smart-2-1-1-sources-1-jar/net/minidev/json/JSONUtil.java
* /opt/cola/permits/1136045252_1613665048.22/0/json-smart-2-1-1-sources-1-jar/net/minidev/json/parser/JSONParserInputStream.java
* /opt/cola/permits/1136045252_1613665048.22/0/json-smart-2-1-1-sources-1-jar/net/minidev/json/parser/JSONParserReader.java
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* /opt/cola/permits/1136045252_1613665048.22/0/json-smart-2-1-1-sources-1-jar/net/minidev/json/writer/ArraysMapper.java
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* /opt/cola/permits/1136045252_1613665048.22/0/json-smart-2-1-1-sources-1-jar/net/minidev/json/JStylerEx.java

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* /opt/cola/permits/1136045252_1613665048.22/0/json-smart-2-1-1-sources-1-
  jar/net/minidev/json/writer/DefaultMapper.java

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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

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.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
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terminated so long as such parties remain in full compliance.

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the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
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DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.
This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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Version 2, June 1991

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of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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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
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However, unrestricted linking of non-free programs would deprive the
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Note that it is possible for a library to be covered by the ordinary
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party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
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A "library" means a collection of software functions and/or data
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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.

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#ifndef __LICENSE_H
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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);
}
#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
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*
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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for the IR code for the ttusb-dec driver

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Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

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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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1.1775 linux-kernel 3.2.0

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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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2000-01-14

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1.1787 libxml 2.9.1-6.el7_2.3

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1.1792 jackson-xc 2.12.1

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1.1799 jettison 1.3.7
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1.1800 e2fsprogs 1.42.9 13.el7

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:

    tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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It is part of the main e2fsprogs distribution, which can be found at:

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*/
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
*/
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \\
`echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \\
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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libet and libss libraries for more information.

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using the "WIP" test distributions or one from the hg or git
repository from the development branch, please contact me
(tytso@mit.edu) before you ship. The release schedules for this
package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-jar/org/springframework/jms/support/converter/MarshallingMessageConverter.java
* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-jar/org/springframework/jms/connection/CachingConnectionFactory.java
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1.1802 d-bus 1.10.24 12.el7

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Theodore Ts'o
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===================================================================
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+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 - Unix SMB/CIFS implementation.
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 - trivial database library - private includes
 -
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$INSTALL_PROGRAM $(BSD_LIB) \ 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \ 
@-$(LDCONFIG)

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Gadi Oxman, August 1995

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1.1812 jetty 8.1.10.v20130312
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* /opt/cola/permits/1125786288_1612763905.88/0/jetty-server-8-1-10-v20130312-sources-
  jar/org/eclipse/jetty/server/ShutdownMonitor.java
* /opt/cola/permits/1125786288_1612763905.88/0/jetty-server-8-1-10-v20130312-sources-
  jar/org/eclipse/jetty/server/BlockingHttpConnection.java
* /opt/cola/permits/1125786288_1612763905.88/0/jetty-server-8-1-10-v20130312-sources-
  jar/org/eclipse/jetty/server/handler/MovedContextHandler.java
* /opt/cola/permits/1125786288_1612763905.88/0/jetty-server-8-1-10-v20130312-sources-
  jar/org/eclipse/jetty/server/handler/HotSwapHandler.java
* /opt/cola/permits/1125786288_1612763905.88/0/jetty-server-8-1-10-v20130312-sources-
  jar/org/eclipse/jetty/server/handler/UserIdentity.java
* /opt/cola/permits/1125786288_1612763905.88/0/jetty-server-8-1-10-v20130312-sources-
  jar/org/eclipse/jetty/server/handler/ErrorHandler.java
* /opt/cola/permits/1125786288_1612763905.88/0/jetty-server-8-1-10-v20130312-sources-
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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.
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.

* @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/cola/permits/1125786288_1612763905.88/0/jetty-server-8-1-10-v20130312-sources-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/cola/permits/1125786288_1612763905.88/0/jetty-server-8-1-10-v20130312-sources-jar/org/eclipse/jetty/server/jmx/Connector-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/cola/permits/1125786288_1612763905.88/0/jetty-server-8-1-10-v20130312-sources-jar/org/eclipse/jetty/server/ssl/SslSocketConnector.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
 */

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/cola/permits/1125786288_1612763905.88/0/jetty-server-8-1-10-v20130312-sources-
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1.1813 unzip 6.0-21.el7

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FIRST NOTE:
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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware): Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these
Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

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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* MoreFiles
* A collection of File Manager and related routines
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
* Portions copyright 1995 Jim Luther
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* 
* Copyright 1997 Christopher Evans (cevans@poppybank.com)
* 
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
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The following copyright applies to the full-featured unreduce.c
(now distributed separately):

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* 
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"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."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

The following copyright applied to most of the VMS code in vms.c, distributed with UnZip version 4.2 and later:

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The following copyright applied to the Windows DLL code (windll/*), distributed with UnZip version 5.2 and later:

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The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
eexplode.c) was originally written by Mark Adler who submitted it
as public domain code.

--------------------------------------------------------------

1.1814 icu 53
1.1814.1 Available under license :
## *.makefile.*
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2013, International Business Machines Corporation and
## others. All Rights Reserved.
## Commands to generate dependency files

```
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

## Flags for position independent code

```
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC
```

## Additional flags when building libraries and with threads

```
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

## Compiler switch to embed a runtime search path

```
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
```

## Compiler switch to embed a library name

```
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

## Shared library options

```
LD_SOOPTIONS= -Wl,-Bsymbolic
```

## Shared object suffix

```
SO = so
```

## Non-shared intermediate object suffix

```
STATIC_O = ao
```

## Compilation rules

```
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

## Dependency rules

```
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \
| sed \"s/(\$*)\.,o\.[^\$]\?\A\o: /\+\$\^ > $@;\ \ 
[ -s $@ ] || rm -f $@" 
%.d: $(srcdir)/%.cpp
```

@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed "s/A($*)\\.o : /@/g" > $@; \
  [ -s $@ ] || rm -f $@'"

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.1815 thenby 1.2.3

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1.1829 stax 3.1.4

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1.1830 lucene-spatial 4.6.0

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```
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianMinimalStemmer.java
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EDIT-BUFFER / HISTORY Commands begin with ':' and execute when you hit ENTER.
COMMENTS begin with '/'' and end with the very next '*/'.
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All other lines comprise SQL Statements.
SQL Statements are terminated by either a blank line (which moves the statement into the edit buffer without executing) or a line ending with ';'
(which executes the statement).
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Ty Coon, President of Vice

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for making modifications to it. "Object code" means any non-source
form of a work.

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"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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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
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1.1851 apr 1.5.2

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file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/CharacterIterator.java
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* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/RETest.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/StringCharacterIterator.java

1.1854 tar 1.26 35.el7
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1.1857 dnsmasq 2.78

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Version 3, 29 June 2007

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Martin Richards
23 February 2007
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