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### Source Files

-----

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <[mark.martinec@ijs.si](mailto:mark.martinec@ijs.si)>.

Please look into `snprintf.c` for the copyright message.

The complete `snprintf` package together with documentation is available from

<http://www.ijs.si/software/snprintf/> .

. The ``grn'` preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at  
<http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z> .

```
src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp
```

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

```
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
```

src/devices/xditview/parse.c  
src/devices/xditview/xdit.bm  
src/devices/xditview/xdit\_mask.bm  
src/devices/xditview/xditview.c

src/include/DviChar.h  
src/include/XFontName.h

src/libs/libxutil/DviChar.c  
src/libs/libxutil/XFontName.c

## Macro Packages

-----

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac  
tmac/doc-old.tmac  
tmac/doc-common  
tmac/doc-ditroff  
tmac/doc-nroff  
tmac/doc-syms  
tmac/groff\_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac  
tmac/groff\_me.man  
doc/meintro.me  
doc/meref.me

## Hyphenation Patterns

-----

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

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

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

See the file itself for a copyright notice.

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

<http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex> .

The patterns have been converted to a format groff can understand.

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which  
can be found at

<http://dante.ctan.org/CTAN/language/hyphenation/svhyph.tex> .

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

<http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex>  
<http://dante.ctan.org/CTAN/language/hyphenation/dehypht.tex> .

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex',  
which can be found at

<http://dante.ctan.org/CTAN/language/hyphenation/dehyphtex.tex> .

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. The file `tmac/hyphen.cs' contains the same patterns as the file  
`czhyphen.tex' (for TeX), which can be found in the archive

<http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz> .

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If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{ }Texts." line with this:

```
@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample
```

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

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Version 3, 29 June 2007
```

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## 1.3 dwz 0.11-3.el7

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```
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under certain conditions; type `show c' for details.
```

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```
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!

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The End

## 1.5 springfox-core 2.8.0

## 1.6 aop-alliance 1.0.0

## 1.7 gtk 2.24.31-1.el7

### 1.7.1 Available under license :

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\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/ConstraintValidatorFactory.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/spi/ConfigurationState.java  
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\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/metadata/BeanDescriptor.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/Path.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/ReportAsSingleViolation.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/ConstraintValidatorContext.java

\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/ConstraintViolation.java  
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\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/Validator.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/groups/package-info.java  
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jar/javax/validation/executable/package-info.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/ConstraintTarget.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/constraintvalidation/package-info.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/package-  
info.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/metadata/CascadableDescriptor.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/metadata/CrossParameterDescriptor.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/constraints/package-info.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/constraintvalidation/ValidationTarget.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/spi/package-info.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/constraintvalidation/SupportedValidationTarget.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/metadata/GroupConversionDescriptor.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/bootstrap/package-info.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/metadata/package-info.java  
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jar/javax/validation/metadata/ElementDescriptor.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-

jar/javax/validation/TraversableResolver.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
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jar/javax/validation/constraints/Null.java  
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jar/javax/validation/ConstraintDefinitionException.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/constraints/AssertTrue.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/GroupDefinitionException.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/constraints/AssertFalse.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/constraints/Pattern.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/Constraint.java  
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jar/javax/validation/ValidationException.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/spi/ValidationProvider.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
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jar/javax/validation/constraints/Past.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/groups/Default.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/Payload.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/UnexpectedTypeException.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/Validation.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/bootstrap/GenericBootstrap.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-

jar/javax/validation/OverridesAttribute.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/constraints/Digits.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
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\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/spi/BootstrapState.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/constraints/Size.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/ConstraintValidator.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
jar/javax/validation/ConstraintDeclarationException.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
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jar/javax/validation/metadata/ConstructorDescriptor.java  
\* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-  
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- \* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/ElementKind.java
- \* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/metadata/ReturnValueDescriptor.java
- \* /opt/cola/permits/1110631072\_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/executable/ExecutableValidator.java
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```
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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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The End

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abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build\_requires:

File::Temp: 0.15

Test::Harness: 3.16

Test::More: 0.49

generated\_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Module-Build

resources:

MailingList: <mailto:module-build@perl.org>  
license: <http://dev.perl.org/licenses/>  
repository: <http://github.com/dagolden/module-build/>  
version: 3

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
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```

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```
#!/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) = $copyright_msg =~ /\b(\d{4,})/s
        or die "Year not found in README copyright message '$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;
}

```

## 1.10 libuser 0.60-9.e17

### 1.10.1 Available under license :

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Version 2, June 1991

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

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

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

- a) Accompany the work with the complete corresponding

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

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

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

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

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

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

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

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You should have received a copy of the GNU Library General Public

License along with this library; if not, write to the Free Software  
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 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!

## 1.11 cracklib 2.9.0-11.el7

### 1.11.1 Available under license :

-----  
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected  
in released code until Nov 2009 - slow release cycle...)  
-----

Discussion thread from mailing list archive, with approval from everyone actively  
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML  
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20  
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license  
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18  
I understand that, and you're welcome to bring it up with Alec directly  
and see if he wants to relicense his code as LGPL... but at this point,  
it was enough to just get it consistent and documented as to what it was  
released under. This wasn't actually a license change, just a  
clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:15 PM  
> To: cracklib-devel@li...  
> Subject: [Cracklib-devel] cracklib license  
>=20  
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing  
> libraries under  
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

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> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20  
GPL-2 ... it was a modified artistic license ... i didnt notice the license=  
=20

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=  
eir=20

applications are also GPL-2 which imo is just wrong. it isnt the place of =  
a=20

library to dictact to application writes what license they should be using.=  
=20

thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> directly

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> license

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>=20

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> place of a

> library to dictact to application writes what license they should

> be using.

> thus LGPL-2.1 enters to fill this void.

> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's  
best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code  
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct  
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional code, so whatever licensing y'all come up with is fine  
>> by me.

>

> I am sympathetic. Guys, what do you reckon?

>  
> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable  
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,  
GPLv2 with the option of using the library under a later version of the  
GPL would permit applications which were released under version 3 of the  
GPL to use the library, too, which would be sufficient for the packages  
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:  
>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
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>>> much other than cleaning up the packaging and patches and a small  
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>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.  
>>  
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>>  
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> which are included in Fedora. FWIW, I'd personally lean toward LGPL.  
>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we  
> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----  
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.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.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.umn.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-ipv6.cc.umn.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 191Gxtp020623  
for <nneul@umn.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOeX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

>



> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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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distribution or on the World Wide Web at  
<http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html>. You can also  
obtain it by writing to the Free Software Foundation, Inc., 51

Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

-----

-----

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

-----

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

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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  
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> Sent: Monday, October 01, 2007 8:15 PM  
> To: cracklib-devel@li...  
> Subject: [Cracklib-devel] cracklib license

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Attachments: Message as HTML

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=20

thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

>> I understand that, and you're welcome to bring it up with Alec

> directly

>> and see if he wants to relicense his code as LGPL... but at this

> point,

>> it was enough to just get it consistent and documented as to what

> it was

>> released under. This wasn't actually a license change, just a

>> clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

> license

> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib

> unless their

> applications are also GPL-2 which imo is just wrong. it isnt the

> place of a

> library to dictact to application writes what license they should

> be using.

> thus LGPL-2.1 enters to fill this void.

> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's  
best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code  
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct  
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional code, so whatever licensing y'all come up with is fine  
>> by me.  
>  
> I am sympathetic. Guys, what do you reckon?  
>

> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable  
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,  
GPLv2 with the option of using the library under a later version of the  
GPL would permit applications which were released under version 3 of the  
GPL to use the library, too, which would be sufficient for the packages  
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of  
>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be  
>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,  
> GPLv2 with the option of using the library under a later version of the  
> GPL would permit applications which were released under version 3 of the  
> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?  
-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we  
> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please

use nneul@neulinger.org.

-----

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: (gmail 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 191Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

>

> ----- Forwarded message -----



> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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

Otherwise, if the work is a derivative of the Library, you may

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

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

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

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`analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt`,  
`analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`,  
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`analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/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`  
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the

ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

Library will still fall under Section 6.)

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

6. As an exception to the Sections above, you may also 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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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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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

```
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<H2 CLASS="title"><A NAME="INTRO">Introduction</A></H2>

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<P>The GNU LGPL applies to the CUPS and CUPS Imaging libraries located in the "cups" and "filter" subdirectories of the CUPS source distribution and the files in the "test" subdirectory. The GNU GPL applies to the remainder of the CUPS distribution.</P>

<P>For those not familiar with the GNU GPL, the license basically allows you to:</P>

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<LI>Distribute verbatim copies of the software in source or binary form.</LI>

<LI>Sell verbatim copies of the software for a media fee, or sell support for the software.</LI>

</UL>

<P>What this license <EM>does not</EM> allow you to do is make changes or add features to CUPS and then sell a binary distribution without source code. You must provide source for any changes or additions to the software, and all code must be provided under the GPL or LGPL as appropriate. The only exceptions to this are the portions of the CUPS software covered by the Apple operating system license exceptions outlined later in this license agreement.</P>

<P>The GNU LGPL relaxes the "link-to" restriction, allowing you to develop applications that use the CUPS and CUPS Imaging libraries under other licenses and/or conditions as appropriate for your application, driver, or filter.</P>

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<P>In addition, as the copyright holder of CUPS, Apple Inc. grants the following special exceptions:</P>

<OL>

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<OL TYPE="a">

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</OL>

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<OL TYPE="a">

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</OL>

</OL>

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## <H2 CLASS="title"><A NAME="KERBEROS">Kerberos Support Code</A></H2>

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<P>Version 2, June 1991

<PRE>

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</PRE>

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<P>Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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<OL START="0">

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<LI>You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

<LI>if the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an

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</OL>

<P>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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</OL>

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

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<OL START="11">

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<P>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.

<PRE>

<VAR>one line to give the program's name and an idea of what it does.</VAR>  
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</PRE>

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

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

<PRE>

Gnomovision version 69, Copyright (C) <VAR>year</VAR> <VAR>name of author</VAR>  
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.

</PRE>

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

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<PRE>

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

<VAR>signature of Ty Coon</VAR>, 1 April 1989

Ty Coon, President of Vice

</PRE>

<H2 CLASS="title"><A NAME="LGPL">GNU LIBRARY GENERAL PUBLIC LICENSE</A></H2>

<P>Version 2, June 1991

<PRE>

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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.]

</PRE>

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<P>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.

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

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

<P>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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<P>"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.

<P>Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

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<OL TYPE="a">

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<P>

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

<P>

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<P>

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</OL>

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<OL TYPE="a">

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<P>

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<P>

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<P>

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</OL>

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<P>

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<PRE>

<VAR>one line to give the library's name and an idea of what it does.</VAR>  
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</PRE>

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<PRE>

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by James Random Hacker.

```
<VAR>signature of Ty Coon</VAR>, 1 April 1990  
Ty Coon, President of Vice  
</PRE>
```

```
<P>That's all there is to it!
```

```
</BODY>  
</HTML>
```

# 1.19 commons-modeler 1.1.0

## 1.19.1 Available under license :

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## 1.23 iconv 2.17

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## 1.24 libxext 1.3.3 3.e17

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```
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 */
/**
 * Indicates that a component is only eligible for registration when all
 * { @linkplain #value specified conditions } match.
 *
 * <p>A <em>condition</em> is any state that can be determined programmatically
 * before the bean definition is due to be registered (see { @link Condition } for details).
 *
 * <p>The { @code @Conditional } annotation may be used in any of the following ways:
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * { @code @Component }, including { @link Configuration @Configuration } classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 * annotations</li>
 * <li>as a method-level annotation on any { @link Bean @Bean } method</li>
 * </ul>
 *
 * <p>If a { @code @Configuration } class is marked with { @code @Conditional },
 * all of the { @code @Bean } methods, { @link Import @Import } annotations, and
 * { @link ComponentScan @ComponentScan } annotations associated with that
 * class will be subject to the conditions.
 *
 * <p><strong>NOTE</strong>: Inheritance of { @code @Conditional } annotations
 * is not supported; any conditions from superclasses or from overridden
```



```
* methods will not be considered. In order to enforce these semantics,
* { @code @Conditional} itself is not declared as
* { @link java.lang.annotation.Inherited @Inherited}; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* { @code @Conditional} must not be declared as { @code @Inherited}.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/
```

Found in path(s):

```
*/opt/cola/permits/1110677025_1606843962.29/0/spring-context-5-0-8-release-sources-1-
jar/org/springframework/context/annotation/Conditional.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
* <a href="http://bit.ly/UzccDt">{ @code AdminServiceFactory}</a>
* and <a href="http://bit.ly/TRIX2r">{ @code MBeanFactory}</a>.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
*/
```

\* @see javax.management.MBeanServer  
\* @see MBeanServerFactoryBean  
\*/

Found in path(s):

\* /opt/cola/permits/1110677025\_1606843962.29/0/spring-context-5-0-8-release-sources-1-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java  
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\* /opt/cola/permits/1110677025\_1606843962.29/0/spring-context-5-0-8-release-sources-1-jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java  
\* /opt/cola/permits/1110677025\_1606843962.29/0/spring-context-5-0-8-release-sources-1-jar/org/springframework/cache/interceptor/BeanFactoryCacheOperationSourceAdvisor.java  
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\* /opt/cola/permits/1110677025\_1606843962.29/0/spring-context-5-0-8-release-sources-1-jar/org/springframework/scheduling/annotation/EnableAsync.java  
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\* /opt/cola/permits/1110677025\_1606843962.29/0/spring-context-5-0-8-release-sources-1-jar/org/springframework/context/index/CandidateComponentsIndex.java  
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- \* /opt/cola/permits/1110677025\_1606843962.29/0/spring-context-5-0-8-release-sources-1-jar/org/springframework/context/annotation/MBeanExportConfiguration.java
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* /opt/cola/permits/1110677025_1606843962.29/0/spring-context-5-0-8-release-sources-1-
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\* /opt/cola/permits/1110677025\_1606843962.29/0/spring-context-5-0-8-release-sources-1-jar/org/springframework/jmx/export/ assembler/ SimpleReflectiveMBeanInfoAssembler.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
- \*/

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- \* /opt/cola/permits/1110677025\_1606843962.29/0/spring-context-5-0-8-release-sources-1-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java

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- \* /opt/cola/permits/1110677025\_1606843962.29/0/spring-context-5-0-8-release-sources-1-jar/org/springframework/scheduling/SchedulingTaskExecutor.java
- \* /opt/cola/permits/1110677025\_1606843962.29/0/spring-context-5-0-8-release-sources-1-jar/org/springframework/context/annotation/ConfigurationMethod.java
- \* /opt/cola/permits/1110677025\_1606843962.29/0/spring-context-5-0-8-release-sources-1-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
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- \* /opt/cola/permits/1110677025\_1606843962.29/0/spring-context-5-0-8-release-sources-1-jar/org/springframework/remoting/RemoteTimeoutException.java
- \* /opt/cola/permits/1110677025\_1606843962.29/0/spring-context-5-0-8-release-sources-1-jar/org/springframework/context/Lifecycle.java
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## 1.28 python-rpm-macros 3-32.el7

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## 1.35 perl-constant 1.27-2.el7

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Mesa 3-D graphics library

Version: 7.0

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```
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* /opt/cola/permits/1110676891_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-
jar/org/springframework/web/servlet/mvc/Controller.java
```

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\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/view/tiles3/SpringLocaleResolver.java  
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\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBody.java  
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Found in path(s):

\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/mvc/WebContentInterceptor.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
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jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewRequestBodyAdvice.java  
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\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/config/MvcNamespaceUtils.java

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\* A contract for inspecting and potentially modifying request data values such

\* as URL query parameters or form field values before they are rendered by a

\* view or before a redirect.

\*

\* <p>Implementations may use this contract for example as part of a solution

\* to provide data integrity, confidentiality, protection against cross-site

\* request forgery (CSRF), and others or for other tasks such as automatically

\* adding a hidden field to all forms and URLs.

\*

\* <p>View technologies that support this contract can obtain an instance to

\* delegate to via { @link RequestContext#getRequestDataValueProcessor()}.

\*

\* @author Rossen Stoyanchev

\* @since 3.1

\*/

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\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/view/document/AbstractPdfView.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/handler/MappedInterceptor.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/tags/form/LabelTag.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/view/ContentNegotiatingViewResolver.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/HttpEntityMethodProcessor.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/DispatcherServlet.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/config/TilesConfigurerBeanDefinitionParser.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/handler/HandlerMappingIntrospector.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/config/ScriptTemplateConfigurerBeanDefinitionParser.java

\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/FrameworkServlet.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyMethodProcessor.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/HandlerExecutionChain.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/resource/ResourceUrlProvider.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/config/annotation/CorsRegistration.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/config/annotation/InterceptorRegistration.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/view/XmlViewResolver.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/PatternsRequestCondition.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/handler/AbstractHandlerMapping.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/config/AnnotationDrivenBeanDefinitionParser.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/support/BindStatus.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/view/json/MappingJackson2JsonView.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/view/BeanNameViewResolver.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ExceptionHandlerExceptionHandlerResolver.java  
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\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-

jar/org/springframework/web/servlet/handler/ConversionServiceExposingInterceptor.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/tags/form/RadioButtonTag.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/mvc/condition/MediaTypeExpression.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/tags/form/AbstractMultiCheckedElementTag.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/tags/form/AbstractSingleCheckedElementTag.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/view/tiles3/SpringBeanPreparerFactory.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/SmartView.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/tags/ParamAware.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/mvc/SimpleControllerHandlerAdapter.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/handler/SimpleServletHandlerAdapter.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/tags/form/AbstractCheckedElementTag.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/tags/form/CheckboxesTag.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/tags/form/RadioButtonTag.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/handler/AbstractDetectingUrlHandlerMapping.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/ModelAndViewDefiningException.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/tags/form/TagIdGenerator.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/mvc/support/RedirectAttributes.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/mvc/LastModified.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/mvc/HttpRequestHandlerAdapter.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/ViewResolver.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/tags/EditorAwareTag.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/tags/form/OptionWriter.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/tags/form/ValueFormatter.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/tags/form/CheckboxTag.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-

jar/org/springframework/web/servlet/mvc/AbstractUrlViewController.java  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/view/tiles3/AbstractSpringPreparerFactory.java  
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 */
/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * { @link #locateSource detected} during response rendering. Users can either specify
 * a specific entry in the model via the { @link #setSourceKey sourceKey} property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See { @link #getSourceTypes() here}
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure { @link #setOutputProperties output properties}
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */
```

Found in path(s):  
\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-  
jar/org/springframework/web/servlet/view/xslt/XsltView.java  
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\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/resource/FixedVersionStrategy.java  
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\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerViewResolver.java  
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\* /opt/cola/permits/1110676891\_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java

## 1.40 qrencode 3.4.1-3.el7

### 1.40.1 Available under license :

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Version 2.1, February 1999

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## 1.49 ttmkfdir 3.0.9-42.el7

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## 1.50 jackson-module-parameter-names 2.9.6

### 1.51 libtasn 4.10 1.e17

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```
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```

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```
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# 1.60 cpp 4.8.5-39.el7atomix1

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

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Version 3, 29 June 2007

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/\*\*

\* A {@link WebApplicationContext} that can be used to bootstrap itself from a contained

\* {@link ServletWebServerFactory} bean.

\* <p>

\* This context will create, initialize and run an {@link WebServer} by searching for a

\* single {@link ServletWebServerFactory} bean within the {@link ApplicationContext}

\* itself. The {@link ServletWebServerFactory} is free to use standard Spring concepts

\* (such as dependency injection, lifecycle callbacks and property placeholder variables).

\* <p>

\* In addition, any {@link Servlet} or {@link Filter} beans defined in the context will be

\* automatically registered with the web server. In the case of a single Servlet bean, the

\* '/' mapping will be used. If multiple Servlet beans are found then the lowercase bean

\* name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will

\* always be mapped to '/'. Filter beans will be mapped to all URLs ('/\*').

\* <p>

\* For more advanced configuration, the context can instead define beans that implement

\* the {@link ServletContextInitializer} interface (most often

\* {@link ServletRegistrationBean}s and/or {@link FilterRegistrationBean}s). To prevent

\* double registration, the use of {@link ServletContextInitializer} beans will disable

\* automatic Servlet and Filter bean registration.

\* <p>

\* Although this context can be used directly, most developers should consider using the

\* { @link AnnotationConfigServletWebServerApplicationContext } or  
\* { @link XmlServletWebServerApplicationContext } variants.  
\*  
\* @author Phillip Webb  
\* @author Dave Syer  
\* @see AnnotationConfigServletWebServerApplicationContext  
\* @see XmlServletWebServerApplicationContext  
\* @see ServletWebServerFactory  
\*/

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- \* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-jar/org/springframework/boot/web/embedded/undertow/UndertowCompressionConfigurer.java
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- \* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-jar/org/springframework/boot/diagnostics/analyzer/InvalidConfigurationPropertyNameFailureAnalyzer.java
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jar/org/springframework/boot/jdbc/metadata/DataSourcePoolMetadataProvider.java  
\* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
jar/org/springframework/boot/context/properties/bind/BeanPropertyName.java  
\* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
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 \* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
 jar/org/springframework/boot/context/properties/bind/handler/NoUnboundElementsBindHandler.java  
 \* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
 jar/org/springframework/boot/web/server/ConfigurableWebServerFactory.java  
 \* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
 jar/org/springframework/boot/cloud/CloudPlatform.java  
 \* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
 jar/org/springframework/boot/web/servlet/ServletComponentScan.java  
 \* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
 jar/org/springframework/boot/context/properties/source/ConfigurationPropertyNameAliases.java  
 \* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
 jar/org/springframework/boot/context/properties/bind/BeanPropertyBinder.java  
 \* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
 jar/org/springframework/boot/logging/log4j2/package-info.java  
 \* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
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 jar/org/springframework/boot/jta/atomikos/package-info.java  
 \* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
 jar/org/springframework/boot/admin/SpringApplicationAdminMXBeanRegistrar.java  
 \* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
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 jar/org/springframework/boot/lang/package-info.java  
 \* /opt/cola/permits/1110675121\_1606843993.67/0/spring-boot-2-0-4-release-sources-1-  
 jar/org/springframework/boot/ansi/AnsiPropertySource.java

## 1.68 pam 1.1.8 22.e17

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- javaee\_5.xsd
- 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
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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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## 1.85 jaxb-core 2.1.7

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# 1.88 spring-boot-autoconfigure

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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/jms/artemis/package-info.java

\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisConnectionFactoryFactory.java

\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/jdbc/metadata/package-info.java

\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/websocket/reactive/TomcatWebSocketReactiveWebServerCustomizer.j

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- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/integration/IntegrationDataSourceInitializer.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/transaction/jta/JtaAutoConfiguration.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/websocket/servlet/TomcatWebSocketServletWebServerCustomizer.java

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- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/data/redis/RedisRepositoriesAutoConfiguration.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/data/cassandra/CassandraReactiveRepositoriesAutoConfiguration.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/admin/package-info.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/data/couchbase/CouchbaseRepositoriesRegistrar.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/session/MongoSessionConfiguration.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/web/servlet/error/AbstractErrorController.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/kafka/KafkaAnnotationDrivenConfiguration.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/data/cassandra/CassandraReactiveRepositoriesAutoConfigureRegistrar.java

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- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/batch/BatchDataSourceInitializer.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/data/redis/JedisClientConfigurationBuilderCustomizer.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/ConditionalOnWebApplication.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/data/web/SpringDataWebAutoConfiguration.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/thymeleaf/ThymeleafTemplateAvailabilityProvider.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/jackson/package-info.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/package-info.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/session/SessionRepositoryFilterConfiguration.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/session/NonUniqueSessionRepositoryFailureAnalyzer.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/batch/BatchConfigurerConfiguration.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/reactor/core/ReactorCoreProperties.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-

jar/org/springframework/boot/autoconfigure/data/couchbase/CouchbaseReactiveRepositoriesRegistrar.java  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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jar/org/springframework/boot/autoconfigure/data/neo4j/Neo4jProperties.java  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jmx/ParentAwareNamingStrategy.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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jar/org/springframework/boot/autoconfigure/data/couchbase/SpringBootCouchbaseConfigurer.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/webservices/package-info.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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jar/org/springframework/boot/autoconfigure/cache/InfinispanCacheConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/flyway/FlywaySchemaManagementProvider.java  
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jar/org/springframework/boot/autoconfigure/template/AbstractTemplateViewResolverProperties.java  
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jar/org/springframework/boot/autoconfigure/cache/SimpleCacheConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/session/MongoSessionProperties.java  
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jar/org/springframework/boot/autoconfigure/mustache/MustacheResourceTemplateLoader.java  
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jar/org/springframework/boot/autoconfigure/template/package-info.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jackson/Jackson2ObjectMapperBuilderCustomizer.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/condition/SpringBootCondition.java  
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jar/org/springframework/boot/autoconfigure/data/rest/RepositoryRestMvcAutoConfiguration.java  
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 jar/org/springframework/boot/autoconfigure/reactor/core/ReactorCoreAutoConfiguration.java  
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 jar/org/springframework/boot/autoconfigure/hazelcast/HazelcastClientConfiguration.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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 jar/org/springframework/boot/autoconfigure/quartz/package-info.java  
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 jar/org/springframework/boot/autoconfigure/data/cassandra/CassandraRepositoriesAutoConfigureRegistrar.java  
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 jar/org/springframework/boot/autoconfigure/ldap/package-info.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/cache/CacheManagerCustomizer.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/condition/OnCloudPlatformCondition.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/jdbc/DataSourceSchemaCreatedEvent.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/data/ldap/LdapRepositoriesRegistrar.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/transaction/jta/JndiJtaConfiguration.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/condition/SearchStrategy.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/condition/ConditionalOnMissingClass.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/condition/AnyNestedCondition.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/mail/package-info.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/SharedMetadataReaderFactoryContextInitializer.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/http/codecs/CodecsAutoConfiguration.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/web/reactive/package-info.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/condition/ConditionalOnBean.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/session/RedisReactiveSessionConfiguration.java  
 \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/AutoConfigureOrder.java  
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jar/org/springframework/boot/autoconfigure/flyway/FlywayMigrationInitializer.java  
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jar/org/springframework/boot/autoconfigure/groovy/template/GroovyTemplateProperties.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/cloud/CloudAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/AutoConfigurations.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/cache/CaffeineCacheConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/package-info.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/freemarker/FreeMarkerReactiveWebConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jooq/SpringTransaction.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/session/RedisSessionProperties.java  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnResource.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jdbc/JndiDataSourceAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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jar/org/springframework/boot/autoconfigure/AutoConfigureBefore.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/context/PropertyPlaceholderAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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jar/org/springframework/boot/autoconfigure/web/servlet/error/ErrorViewResolver.java  
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jar/org/springframework/boot/autoconfigure/amqp/RabbitAnnotationDrivenConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/orm/jpa/HibernateDefaultDdlAutoProvider.java  
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jar/org/springframework/boot/autoconfigure/session/JdbcSessionProperties.java  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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jar/org/springframework/boot/autoconfigure/amqp/SimpleRabbitListenerContainerFactoryConfigurer.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-

jar/org/springframework/boot/autoconfigure/websocket/servlet/WebSocketServletAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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jar/org/springframework/boot/autoconfigure/data/rest/SpringBootRepositoryRestConfigurer.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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jar/org/springframework/boot/autoconfigure/jooq/SpringTransactionProvider.java  
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jar/org/springframework/boot/autoconfigure/hateoas/HypermediaHttpMessageConverterConfiguration.java  
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jar/org/springframework/boot/autoconfigure/hazelcast/HazelcastClientFactory.java  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/AutoConfigurationExcludeFilter.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jms/activemq/ActiveMQAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/mustache/MustacheEnvironmentCollector.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/hazelcast/HazelcastConfigResourceCondition.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/session/ReactiveSessionCondition.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/http/HttpMessageConverters.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnClass.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/reactive/error/package-info.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jooq/JooqExceptionTranslator.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/servlet/MultipartProperties.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/cache/JCacheManagerCustomizer.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-

jar/org/springframework/boot/autoconfigure/mustache/MustacheProperties.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisMode.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/websocket/reactive/package-info.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/data/mongo/ReactiveStreamsMongoClientDependsOnBeanFactoryPost  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jdbc/package-info.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/data/ldap/package-info.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/freemarker/FreeMarkerTemplateAvailabilityProvider.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/CacheCondition.java

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- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/data/solr/SolrRepositoriesAutoConfiguration.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/jooq/JooqProperties.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/elasticsearch/jest/HttpClientConfigBuilderCustomizer.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/JCachePropertiesCustomizer.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/data/couchbase/package-info.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/ConditionalOnExpression.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/validation/PrimaryDefaultValidatorPostProcessor.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/data/OnRepositoryTypeCondition.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/data/rest/package-info.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/data/mongo/MongoClientDependsOnBeanFactoryPostProcessor.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/AutoConfigurationMetadata.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/hazelcast/package-info.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/batch/BatchProperties.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/HazelcastJCacheCustomizationConfiguration.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/AllNestedConditions.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/amqp/DirectRabbitListenerContainerFactoryConfigurer.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/batch/JobLauncherCommandLineRunner.java
- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/flyway/FlywayDataSource.java
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- \* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-jar/org/springframework/boot/autoconfigure/validation/package-info.java
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/embedded/package-info.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jms/JmsProperties.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/security/StaticResourceLocation.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/thymeleaf/ThymeleafAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/security/servlet/WebSecurityEnablerConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jdbc/JdbcProperties.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/reactive/error/DefaultErrorWebExceptionHandler.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/AutoConfigurationMetadataLoader.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/servlet/WebMvcProperties.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/data/RepositoryType.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/transaction/jta/BitronixJtaConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/orm/jpa/HibernateJpaAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/mustache/MustacheServletWebConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-

jar/org/springframework/boot/autoconfigure/mail/MailProperties.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/transaction/jta/NarayanaJtaConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/format/package-info.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/orm/jpa/JpaBaseConfiguration.java  
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jar/org/springframework/boot/autoconfigure/orm/jpa/DataSourceInitializedPublisher.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/servlet/error/ErrorMvcAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/condition/OnExpressionCondition.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/info/package-info.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/ResourceProperties.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/embedded/UndertowWebServerFactoryCustomizer.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/security/reactive/WebFluxSecurityConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/AutoConfigurationImportSelector.java  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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jar/org/springframework/boot/autoconfigure/http/GsonHttpMessageConvertersConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/data/mongo/MongoDataAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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jar/org/springframework/boot/autoconfigure/jdbc/DataSourceProperties.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/reactor/core/package-info.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/data/rest/RepositoryRestProperties.java  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/mongo/MongoClientFactory.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/reactive/ReactiveWebServerFactoryCustomizer.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/condition/ConditionMessage.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/ImportAutoConfigurationImportSelector.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/security/servlet/PathRequest.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/mustache/MustacheReactiveWebConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/session/AbstractSessionCondition.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-

jar/org/springframework/boot/autoconfigure/jms/IndiConnectionFactoryAutoConfiguration.java  
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jar/org/springframework/boot/autoconfigure/condition/ConditionEvaluationReport.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/security/oauth2/client/OAuth2ClientProperties.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/servlet/ServletWebServerFactoryCustomizer.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/reactive/error/AbstractErrorWebExceptionHandler.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/orm/jpa/HibernateJpaConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/mustache/MustacheAutoConfiguration.java  
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jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisXAConnectionFactoryConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
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\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-

jar/org/springframework/boot/autoconfigure/cache/CacheManagerCustomizers.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/ConditionalOnEnabledResourceChain.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/reactive/function/client/package-info.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/transaction/TransactionManagerCustomizers.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jms/activemq/ActiveMQProperties.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/liquibase/LiquibaseAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/security/servlet/StaticResourceRequest.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/info/ProjectInfoAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/quartz/QuartzDataSourceInitializer.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/gson/GsonBuilderCustomizer.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/mongo/ReactiveMongoClientFactory.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/security/reactive/package-info.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/session/SessionAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/dao/PersistenceExceptionTranslationAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/ldap/embedded/package-info.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/batch/BatchAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/logging/ConditionEvaluationReportMessage.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/integration/IntegrationAutoConfigurationScanRegistrar.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/security/servlet/SecurityFilterAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/security/servlet/UserDetailsServiceAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/orm/jpa/HibernatePropertiesCustomizer.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchDataAutoConfiguration.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-

jar/org/springframework/boot/autoconfigure/web/servlet/DispatcherServletRegistrationBean.java  
\* /opt/cola/permits/1110675081\_1606844024.72/0/spring-boot-autoconfigure-2-0-4-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jms/activemq/ActiveMQXAConnectionFactoryConfiguration.java

# 1.89 geo-ip 1.5.0 14.e17

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## 1.90 libxcb 1.13 1.el7

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analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers  
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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/es/SpanishLightStemmer.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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## 1.98 swagger-annotations 1.5.14

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 */
```

```
package io.swagger.annotations;
```

```
import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
```

```
/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 *
 * @since 1.5.0
 */
```

```
@Target(ElementType.ANNOTATION_TYPE)
```

```

@Retention(RetentionPolicy.RUNTIME)
public @interface License {

    /**
     * The name of the license.
     *
     * @return the name of the license
     */
    String name();

    /**
     * An optional URL for the license.
     *
     * @return an optional URL for the license.
     */
    String url() default "";
}

```

# 1.99 libutempter 1.1.6-4.el7

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# 1.103 t-digest 3.2

## 1.104 servlet-api 3.1.0

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## 1.107 kerberos 1.15.1 37.el7\_7.2

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c

lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/pem.h

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
 gz/third\_party/boringssl/include/openssl/bn.h  
 \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

gz/third\_party/boringssl/crypto/bn/internal.h

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```
/* gzclose.c -- zlib gzclose() function
```

```
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```

```
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```

```
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```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/zlib/gzclose.c
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```

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/ev\_epoll1\_linux.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/tcp\_server\_utils\_posix.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/timer\_manager.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/lb\_policy/grpclb/grpclb\_channel\_secure.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/ev\_epoll1\_linux.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/is\_epollexclusive\_available.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/support/atomic\_with\_std.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/lockfree\_event.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/tsi/transport\_security\_adapter.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/intrusive\_hash\_map\_internal.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/http/http\_filters\_plugin.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/lockfree\_event.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/tsi/transport\_security\_adapter.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/max\_age/max\_age\_filter.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/proxy\_mapper.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/support/memory.h  
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gz/src/core/ext/filters/client\_channel/lb\_policy/grpclb/grpclb\_channel.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/timer\_manager.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/ev\_epoll\_thread\_pool\_linux.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/lb\_policy/grpclb/client\_load\_reporting\_filter.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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gz/include/grpc/load\_reporting.h  
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gz/src/core/ext/filters/client\_channel/lb\_policy/grpclb/grpclb\_client\_stats.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/security/transport/lb\_targets\_info.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/tcp\_server\_utils\_posix\_ifaddrs.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/support/atomic\_with\_atm.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/lb\_policy/grpclb/grpclb\_client\_stats.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/retry\_throttle.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/lb\_policy/grpclb/client\_load\_reporting\_filter.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/surface/completion\_queue\_factory.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/tcp\_server\_utils\_posix\_common.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/support/arena.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/proxy\_mapper.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/support/arena.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/proxy\_mapper\_registry.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/ev\_epoll\_thread\_pool\_linux.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/socket\_factory\_posix.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/ev\_epollex\_linux.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

gz/src/core/lib/iomgr/ev\_epoll\_limited\_pollers\_linux.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/surface/completion\_queue\_factory.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/retry\_throttle.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/socket\_factory\_posix.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/sys\_epoll\_wrapper.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/intrusive\_hash\_map.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/gen/trace\_context.pb.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/surface/validate\_metadata.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/support/atomic.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/intrusive\_hash\_map.h

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\*/

/\*

\* getopt.c --

\*

\* Standard UNIX getopt function. Code is from BSD.

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chtcp2/transport/http2\_settings.h

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\* Source: <https://github.com/tpoepplmann/newhope>

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- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/ec\_key.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/ec/ec.c
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gz/src/core/lib/iomgr/ev\_posix.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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gz/src/core/ext/transport/chtcp2/transport/incoming\_metadata.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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gz/src/core/lib/security/transport/auth\_filters.h  
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gz/include/grpc/impl/codegen/atm.h  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/string\_posix.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/http/message\_compress/message\_compress\_filter.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/surface/call\_details.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/http/message\_compress/message\_compress\_filter.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/slice/slice\_buffer.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/endpoint\_pair\_windows.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/ext/grpc/rb\_server.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/log\_posix.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/ext/grpc/rb\_server.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/profiling/timers.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/time\_averaged\_stats.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/time\_averaged\_stats.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chttp2/client/secure/secure\_channel\_create.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/env.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/json/json\_writer.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/json/json\_writer.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/log.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/ext/grpc/rb\_server\_credentials.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/tcp\_server\_posix.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/ext/grpc/rb\_server\_credentials.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/cpu\_windows.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/spinlock.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/http/httpcli.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/iomgr\_windows.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/http/httpcli.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/impl/codegen/atm\_windows.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/udp\_server.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/udp\_server.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/tls.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/thd\_windows.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/client\_channel/lb\_policy\_factory.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chttp2/client/chttp2\_connector.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/client\_channel/lb\_policy\_factory.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/stack\_lockfree.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chttp2/client/chttp2\_connector.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/wakeup\_fd\_pipe.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/wakeup\_fd\_pipe.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/byte\_buffer\_reader.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame\_goaway.c

- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chtcp2/transport/frame\_goaway.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/impl/codegen/sync\_posix.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chtcp2/transport/hpack\_encoder.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/surface/byte\_buffer\_reader.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chtcp2/transport/hpack\_encoder.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/load\_file.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/load\_file.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/wakeup\_fd\_posix.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/slice/b64.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/sync\_windows.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/wakeup\_fd\_posix.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/slice/b64.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/atm\_gcc\_sync.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/thd\_internal.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chtcp2/transport/chtcp2\_plugin.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chtcp2/transport/frame.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chtcp2/transport/varint.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chtcp2/server/chtcp2\_server.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chtcp2/transport/varint.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/sockaddr\_utils.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/compression/algorithm\_metadata.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/tcp\_client\_posix.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/cpu.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/tls\_msvc.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/log\_linux.c



\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/cpu\_iphone.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/tcp\_client\_posix.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/census/aggregation.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/socket\_windows.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/census/census\_interface.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/sync\_generic.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/socket\_windows.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/security/transport/security\_connector.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/tsi/fake\_transport\_security.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/security/credentials/credentials.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/security/transport/security\_connector.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/surface/version.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/security/credentials/credentials.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/ev\_epoll\_limited\_pollers\_linux.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/tsi/fake\_transport\_security.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/surface/channel\_stack\_type.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/wakeup\_fd\_eventfd.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/alloc.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/json/json\_string.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/census/grpc\_filter.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/census/grpc\_filter.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/client\_channel/client\_channel\_plugin.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/iomgr\_posix.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/log.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/iomgr\_posix.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/ext/filters/client\_channel/resolver.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/pollset\_set\_windows.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/ext/filters/client\_channel/resolver.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/pollset\_set\_windows.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/ext/transport/chttp2/transport/hpack\_table.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/ext/census/rpc\_metric\_id.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/ext/transport/chttp2/transport/hpack\_table.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/ext/transport/chttp2/transport/hpack\_parser.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/include/grpc/grpc\_security.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/surface/init.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/ext/transport/chttp2/transport/hpack\_parser.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/surface/init.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/transport/http2\_errors.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/socket\_utils\_posix.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/include/grpc/impl/codegen/sync\_windows.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/ext/transport/chttp2/transport/frame\_data.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/ruby/ext/grpc/rb\_call.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/ext/filters/client\_channel/resolver/dns/c\_ares/dns\_resolver\_ares.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/security/transport/client\_auth\_filter.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/support/time\_precise.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/surface/server.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/socket\_utils\_common\_posix.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/support/time\_precise.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/workqueue.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/env\_windows.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/client\_channel/resolver\_registry.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/resolve\_address.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/ext/grpc/rb\_channel\_credentials.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/ext/grpc/rb\_channel\_credentials.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/json/json\_reader.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/channel/context.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/env\_linux.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/client\_channel/lb\_policy/round\_robin/round\_robin.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/log\_windows.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/tcp\_server\_uv.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/htt2/transport/stream\_lists.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/census/initialize.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/pollset\_windows.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/wakeup\_fd\_nospecial.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/pollset\_windows.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/sync.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/log\_android.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/avl.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/tsi/transport\_security\_interface.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/slice\_buffer.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/histogram.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/tmpfile.h

- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/iomgr.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/workqueue\_windows.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/iomgr.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/workqueue\_windows.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/support/block\_annotate.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/closure.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/slice/slice\_string\_helpers.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/closure.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/slice/slice\_string\_helpers.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/pollset.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/transport/transport.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/iomgr\_internal.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/transport/transport.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/ext/transport/chttp2/transport/internal.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/include/grpc/support/time.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/endpoint.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/endpoint.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/http/httpcli\_security\_connector.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/transport/connectivity\_state.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/channel/connected\_channel.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/surface/call\_test\_only.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/transport/connectivity\_state.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/include/grpc/impl/codegen/status.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/channel/connected\_channel.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/socket\_mutator.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/socket\_mutator.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/json/json.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chtcp2/transport/frame\_rst\_stream.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chtcp2/alpn/alpn.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/census/grpc\_plugin.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chtcp2/transport/frame\_rst\_stream.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/json/json.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/compression/message\_compress.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/client\_channel/resolver/dns/native/dns\_resolver.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/compression/message\_compress.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/ext/grpc/rb\_completion\_queue.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chtcp2/alpn/alpn.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/ext/grpc/rb\_completion\_queue.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/security/transport/secure\_endpoint.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/compression/compression.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/client\_channel/parse\_address.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/subprocess\_posix.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/ext/grpc/rb\_byte\_buffer.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/ext/grpc/rb\_byte\_buffer.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/exec\_ctx.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/timer\_heap.h  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/resolve\_address\_posix.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/timer\_heap.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/profiling/stap\_timers.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/client\_channel/resolver\_registry.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/sockaddr\_windows.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/socket\_utils\_posix.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chtcp2/transport/bin\_encoder.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/transport/metadata\_batch.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/client\_channel/lb\_policy/pick\_first/pick\_first.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chtcp2/transport/bin\_encoder.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/transport/metadata\_batch.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/sync\_posix.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/surface/channel\_ping.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/surface/byte\_buffer.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/useful.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/tls\_pthread.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/security/transport/secure\_endpoint.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/census/census\_rpc\_stats.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/tls\_gcc.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/atm.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/transport/byte\_stream.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/log\_windows.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/http/format\_request.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/polling\_entity.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/transport/byte\_stream.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/ext/grpc/rb\_channel\_args.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/ruby/ext/grpc/rb\_channel\_args.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/include/grpc/impl/codegen/port\_platform.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/support/time\_posix.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/surface/lame\_client.cc  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/support/tmpfile\_windows.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/ext/transport/chtcp2/transport/chtcp2\_transport.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/include/grpc/support/workaround\_list.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/security/context/security\_context.c  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/security/credentials/jwt/jwt\_verifier.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/include/grpc/compression.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/ext/filters/client\_channel/channel\_connectivity.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/lib/iomgr/resolve\_address\_windows.c  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/src/core/ext/filters/client\_channel/lb\_policy\_registry.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/tmpfile\_posix.c  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/client\_channel/client\_channel\_factory.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/cmdline.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame\_settings.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/profiling/basic\_timers.c  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/sockaddr\_posix.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/transport/transport\_impl.h



\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/network\_status\_tracker.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/impl/codegen/slice.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/time.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/debug/trace.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/surface/alarm.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/debug/trace.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/is\_epollexclusive\_available.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/client\_channel/resolver\_factory.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/htt2/transport/parsing.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/client\_channel/resolver\_factory.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/tsi/ssl\_types.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/htt2/transport/writing.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/time\_windows.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/support/host\_port.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/subprocess.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/tcp\_windows.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/transport/metadata.c  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/htt2/transport/frame\_data.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/channel/channel\_stack.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

gz/src/core/lib/iomgr/ev\_epollex\_linux.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/channel/channel\_stack.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/client\_channel.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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gz/src/core/lib/security/transport/server\_auth\_filter.c  
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gz/src/core/ext/transport/chtcp2/transport/chtcp2\_transport.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/support/histogram.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/ruby/ext/grpc/rb\_compression\_options.c  
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gz/src/ruby/ext/grpc/rb\_call\_credentials.c  
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gz/src/core/lib/surface/call\_log\_batch.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/security/util/json\_util.c  
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gz/src/core/lib/security/credentials/credentials\_metadata.c  
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gz/src/core/lib/support/stack\_lockfree.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/endpoint\_pair.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

gz/include/grpc/byte\_buffer.h  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/pollset\_set.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/security/credentials/jwt/json\_token.c  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/impl/codegen/atm\_gcc\_atomic.h  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/tcp\_client\_windows.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/transport/timeout\_encoding.c  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/support/port\_platform.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/stream\_map.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/security/credentials/composite/composite\_credentials.h  
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gz/src/ruby/ext/grpc/rb\_channel.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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gz/include/grpc/support/string\_util.h

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Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/cares/cares/ares\_getopt.h

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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gz/third_party/boringssl/crypto/x509/x509_vpm.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/x509v3/pcy_cache.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/x509v3/pcy_node.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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gz/third\_party/boringssl/crypto/bn/random.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/internal.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bn/gcd.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/ex\_data.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bn/prime.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/ex\_data.h

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/evp/print.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/ssl/dtls\_record.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/base_resources.c  
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/base_resources.h
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/evp/p\_rsa\_asn1.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/x509/rsa\_pss.c

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/crypto.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/chacha.h

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/cipher/aead.c

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/poly1305/poly1305\_vec.c

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/stack\_macros.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/engine.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/bytestring.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/poly1305.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/rand.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/rand/windows.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/opensslv.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/cipher/e\_ssl3.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/x509/pkcs7.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/openssl\_typ.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/bio/socket\_helper.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/opensslconf.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/bytestring/cbs.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/lhash\_macros.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/bytestring/cbb.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/rand/rand.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/hkdf/hkdf.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/bytestring/internal.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/poly1305/poly1305.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/ssl/custom\_extensions.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/cpu-arm.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/bytestring/ber.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/cipher/e\_chacha20poly1305.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/pkcs7.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/safestack.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/engine/engine.c

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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 gz/third\_party/boringssl/crypto/err/err.c  
 \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
 gz/third\_party/boringssl/include/openssl/err.h  
 \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
 gz/third\_party/boringssl/crypto/bn/montgomery.c

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/ssl/ssl\_lib.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/ssl/ssl\_cipher.c

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/\* inftrees.c -- generate Huffman trees for efficient decoding  
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gz/third_party/boringssl/ssl/t1_enc.c  
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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/* These version-specific methods behave exactly like |TLS_method| and
* |DTLS_method| except they also call |SSL_CTX_set_min_proto_version| and
* |SSL_CTX_set_max_proto_version| to lock connections to that protocol
* version. */
/* key_exchange_info contains an indication of the size of the asymmetric
* primitive used in the handshake that created this session. In the event
* that two asymmetric operations are used, this value applies to the one
* that controls the confidentiality of the connection. Its interpretation
* depends on the primitive that was used; as specified by the cipher suite:
* DHE: the size, in bits, of the multiplicative group.
* ECDHE: the TLS id for the curve.
*
* A zero indicates that the value is unknown. */

```

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```

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```

* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/x509v3/v3_alt.c

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
* gz/third_party/boringssl/crypto/rsa/padding.c

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gz/third\_party/cares/cares/ares\_parse\_srv\_reply.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/cares/cares/ares\_parse\_txt\_reply.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/core/lib/transport/service_config.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/core/lib/slice/slice_hash_table.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/core/ext/filters/message_size/message_size_filter.h
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
 gz/third\_party/boringssl/ssl/ssl\_session.c

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/x509/vpm_int.h

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/security/credentials/fake/fake\_credentials.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/resource.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/placeholders.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/resource.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/timer\_uv.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/surface/channel\_init.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/parse\_address.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/security/credentials/plugin/plugin\_credentials.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/surface/channel\_init.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/subchannel\_index.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/pollset\_uv.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-



gz/src/core/lib/iomgr/combiner.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/lb\_policy/grpclb/load\_balancer\_api.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/combiner.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/support/wrap\_memcpy.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/lb\_policy/grpclb/load\_balancer\_api.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/unix\_sockets\_posix.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/include/grpc/impl/codegen/compression\_types.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/trace\_string.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/unix\_sockets\_posix.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/socket\_utils\_windows.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/timer\_uv.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/pollset\_uv.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/slice/slice\_internal.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/security/credentials/fake/fake\_credentials.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/ev\_poll\_posix.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/include/grpc/impl/codegen/exec\_ctx\_fwd.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/security/credentials/google\_default/credentials\_generic.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/ev\_epollsig\_linux.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/transport/error\_utils.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/support/subprocess\_windows.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/transport/error\_utils.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/transport/pid\_controller.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/transport/pid\_controller.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/support/mpscq.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

gz/src/core/lib/channel/handshaker\_registry.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/support/mpscq.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/channel/handshaker\_registry.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/resolve\_address\_uv.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/support/backoff.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/slice/percent\_encoding.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/workqueue\_uv.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/support/backoff.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/workqueue\_uv.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/slice/percent\_encoding.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/ruby/ext/grpc/rb\_grpc\_imports.generated.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/channel/handshaker.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/tcp\_uv.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/ruby/ext/grpc/rb\_grpc\_imports.generated.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/socket\_utils\_uv.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/tcp\_uv.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/channel/handshaker.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/transport/bdp\_estimator.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/unix\_sockets\_posix\_noop.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/transport/bdp\_estimator.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/polling\_entity.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/surface/validate\_metadata.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/resolver/dns/c\_ares/grpc\_ares\_ev\_driver\_posix.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/port.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

gz/src/core/lib/iomgr/endpoint\_pair\_posix.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/include/grpc/grpc\_posix.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/include/grpc/impl/codegen/connectivity\_state.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/tracing.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/channel/handshaker\_factory.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/tracing.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/channel/handshaker\_factory.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/security/credentials/plugin/plugin\_credentials.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/transport/chttp2/transport/bin\_decoder.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/wakeup\_fd\_cv.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/include/grpc/grpc\_security\_constants.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/wakeup\_fd\_cv.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/transport/chttp2/transport/bin\_decoder.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/load\_reporting/load\_reporting.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/load\_reporting/load\_reporting.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/error\_internal.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/http\_connect\_handshaker.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/security/credentials/ssl/ssl\_credentials.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/http\_connect\_handshaker.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/plugin\_registry/grpc\_plugin\_registry.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/security/credentials/ssl/ssl\_credentials.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/endpoint\_pair\_uv.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/resolver/dns/c\_ares/grpc\_ares\_ev\_driver.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

gz/src/core/ext/census/gen/census.pb.c  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/support/string\_util\_windows.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/resource\_quota.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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gz/src/core/lib/iomgr/iomgr\_uv.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/include/grpc/impl/codegen/propagation\_bits.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/include/grpc/impl/codegen/gpr\_slice.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/security/credentials/iam/iam\_credentials.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/security/credentials/iam/iam\_credentials.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/transport/http2/client/insecure/channel\_create\_posix.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/transport/http2/server/http2\_server.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/sockaddr\_utils.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/security/credentials/jwt/jwt\_credentials.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/security/credentials/jwt/jwt\_credentials.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/resolver/dns/c\_ares/grpc\_ares\_wrapper.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/security/credentials/oauth2/oauth2\_credentials.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/transport/http2/server/insecure/server\_http2\_posix.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/surface/lame\_client.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/resolver/dns/c\_ares/grpc\_ares\_wrapper.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/trace\_status.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/ruby/ext/grpc/rb\_loader.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/security/credentials/google\_default/google\_default\_credentials.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

gz/src/core/ext/census/trace\_context.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/timer\_generic.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/trace\_context.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/ruby/ext/grpc/rb\_loader.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/lb\_policy/grpclb/grpclb.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/ruby/ext/grpc/rb\_event\_thread.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/lb\_policy/grpclb/grpclb.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/ruby/ext/grpc/rb\_event\_thread.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/channel/channel\_stack\_builder.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/load\_reporting/load\_reporting\_filter.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/error.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/http\_proxy.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/load\_reporting/load\_reporting\_filter.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/channel/channel\_stack\_builder.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/trace\_label.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/filters/client\_channel/http\_proxy.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/error.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/ext/census/trace\_propagation.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/slice/slice\_intern.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/include/grpc/impl/codegen/sync.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/pollset\_set\_uv.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/network\_status\_tracker.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/iomgr/tcp\_client\_uv.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/src/core/lib/surface/channel\_stack\_type.c

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```
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third_party/cares/cares/ares_parse_mx_reply.c
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third_party/cares/cares/ares_destroy.c  
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third_party/cares/cares/ares_library_init.h
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gz/third\_party/boringssl/ssl/s3\_pkt.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/ssl/tls\_record.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/pem/pem\_all.c

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```

* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
* gz/third_party/boringssl/crypto/evp/pbkdf.c

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/surface/server.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/surface/completion\_queue.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/grpc.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/include/grpc/census.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/iomgr/ev\_poll\_posix.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/json/json\_reader.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/lib/security/credentials/composite/composite\_credentials.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/client\_channel/resolver/sockaddr/sockaddr\_resolver.c  
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gz/third_party/cares/cares/ares_free_string.c
```

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```
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```

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```
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```

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*
*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/include/grpc/impl/codegen/grpc_types.h

```

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```

/* uncompr.c -- decompress a memory buffer
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*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/zlib/uncompr.c

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* (2) University of Haifa, Israel *
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```

* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/bn/rsaz_exp.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/bn/rsaz_exp.h

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 gz/third\_party/boringssl/crypto/ec/ec\_asn1.c

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- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/cares/cares/ares\_create\_query.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/cares/cares/ares\_gethostbyaddr.c
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/cares/cares/ares\_free\_hostent.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/cares/cares/ares\_mkquery.c

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gz/third\_party/boringssl/crypto/pkcs8/p8\_pkey.c

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/x509v3/pcy_int.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/x509v3/pcy_tree.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/x509v3/pcy_map.c

```

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/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
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*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors

```

\* instead of four steps with four exclusive-ors. This results in about a  
\* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.  
\*/

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/zlib/crc32.c

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/asn1.h

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/newhope/ntt.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/cpu-aarch64-linux.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

gz/third\_party/boringssl/crypto/x509/internal.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bytestring/asn1\_compat.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/ssl/tls13\_server.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/rand/deterministic.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/cpu-arm-linux.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/asn1\_mac.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/newhope/newhope.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/newhope/poly.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/poly1305/internal.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/curve25519/spake25519.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/obj\_mac.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/newhope/reduce.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/newhope/error\_correction.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/newhope/internal.h  
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gz/third\_party/boringssl/crypto/cpu-ppc64le.c  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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gz/third\_party/cares/cares/ares\_gethostbyname.c

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- gz/third\_party/boringssl/include/openssl/ecdsa.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-
- gz/third\_party/boringssl/crypto/ecdsa/ecdsa\_asn1.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/ssl/s3\_both.c

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/cipher/tls_cbc.c

```

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```

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
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*/

```

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```

* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/zlib/compress.c

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/ecdh.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/ecdh/ecdh.c

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/zlib/gzlib.c

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/pem/pem_xaux.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/time_support.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/include/openssl/time_support.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/pem/pem_x509.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/x509/x509cset.c

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- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/x509v3/v3\_bcons.c
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gz/third\_party/boringssl/crypto/x509v3/v3\_bitst.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509v3/v3\_akey.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/pkcs8/p5\_pbev2.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509v3/v3\_extku.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509v3/v3\_enum.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509v3/v3\_pku.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509\_trs.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x\_x509a.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509v3/v3\_prn.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/pkcs8/internal.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/pkcs8/pkcs8.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/pkcs8.h  
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gz/third\_party/boringssl/crypto/x509v3/v3\_skey.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509spki.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/pkcs8/p5\_pbe.c  
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gz/third_party/cares/cares/bitncmp.c  
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third_party/cares/cares/inet_net_pton.c
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third_party/boringssl/crypto/refcount_c11.c
```

```
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third_party/boringssl/crypto/curve25519/internal.h
```

```
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third_party/boringssl/crypto/ec/util-64.c
```

```
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third_party/boringssl/include/openssl/buffer.h
```

```
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third_party/boringssl/include/openssl/srtp.h
```

```
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third_party/boringssl/crypto/thread_pthread.c
```

```
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third_party/boringssl/ssl/ssl_aead_ctx.c
```

```
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third_party/boringssl/crypto/rand/internal.h
```

```
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/boringssl/err_data.c
```

```
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third_party/boringssl/ssl/ssl_buffer.c
```

```
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gz/third_party/boringssl/crypto/bn/bn_asn1.c
```

```
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third_party/boringssl/crypto/refcount_lock.c
```

```
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third_party/boringssl/crypto/conf/internal.h
```

```
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
```



```
gz/third_party/boringssl/ssl/ssl_ecdh.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/include/openssl/cmac.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/include/openssl/dtls1.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/thread_none.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/thread_win.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/ec/p256-64.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/include/openssl/curve25519.h
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```

```
/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

```
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/zlib/infback.c
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```

```
/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
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*/
```

```
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/zlib/deflate.c
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```

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- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/x509v3/v3\_info.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/x509v3/v3\_ia5.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/x509v3/v3\_lib.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/x509v3/v3\_sxnet.c

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/http/client/http\_client\_filter.h

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/filters/http/client/http\_client\_filter.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/core/ext/census/operation.c

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/cares/cares/ares\_platform.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/dsa.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/dsa/dsa.c

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/include/openssl/aes.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/aes/aes.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/aes/mode\_wrappers.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/aes/internal.h

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- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/modes/ctr.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/boringssl/crypto/modes/ofb.c



```
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/modes/cfb.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/modes/cbc.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/modes/gcm.c
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/lib/grpc/generic/bidi_call.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/pb/test/client.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/bin/math_services_pb.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/spec/generic/client_stub_spec.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/lib/grpc/generic/rpc_server.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/lib/grpc/generic/service.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/bin/apis/tech/pubsub/proto/pubsub_services.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/lib/grpc/version.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/ext/grpc/extconf.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/lib/grpc.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/spec/pb/health/checker_spec.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/spec/generic/service_spec.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/spec/compression_options_spec.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
```

```

gz/src/ruby/pb/grpc/health/v1/health_services_pb.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/pb/grpc/testing/duplicate/echo_duplicate_services_pb.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/lib/grpc/logconfig.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/lib/grpc/notifier.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/spec/call_credentials_spec.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/bin/apis/google/protobuf/empty.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/spec/server_spec.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/spec/generic/rpc_server_spec.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/bin/math_server.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/lib/grpc/errors.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/spec/channel_connection_spec.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/lib/grpc/generic/rpc_desc.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/spec/channel_credentials_spec.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/lib/grpc/core/time_consts.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/lib/grpc/grpc.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/spec/spec_helper.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/bin/noproto_server.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/pb/generate_proto_ruby.sh
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/bin/math_client.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/lib/grpc/generic/client_stub.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/Makefile
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/bin/apis/tech/pubsub/proto/pubsub.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/spec/client_server_spec.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/spec/time_consts_spec.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/src/ruby/pb/src/proto/grpc/testing/test_services_pb.rb

```

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/spec/pb/duplicate/codegen\_spec.rb  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/spec/error\_sanity\_spec.rb  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/pb/test/server.rb  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/pb/grpc/health/checker.rb  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/bin/noproto\_client.rb  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/spec/generic/active\_call\_spec.rb  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/spec/generic/rpc\_server\_pool\_spec.rb  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/spec/call\_spec.rb  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/pb/grpc/testing/metrics\_services\_pb.rb  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/spec/channel\_spec.rb  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/spec/server\_credentials\_spec.rb  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/lib/grpc/generic/active\_call.rb  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/src/ruby/spec/generic/rpc\_desc\_spec.rb

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

/\* 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).

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/zlib/zlib.h  
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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/cares/cares/ares\_parse\_soa\_reply.c

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/cares/cares/ares\_setup.h

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/\* deflate.h -- internal compression state

\* Copyright (C) 1995-2016 Jean-loup Gailly

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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/zlib/deflate.h

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bn/sqrt.c

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- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/third\_party/boringssl/crypto/bn/convert.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/third\_party/boringssl/crypto/obj/obj.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/third\_party/boringssl/crypto/asn1/tasn\_new.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/third\_party/boringssl/crypto/hmac/hmac.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/third\_party/boringssl/include/openssl/evp.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/third\_party/boringssl/crypto/asn1/asn1\_lib.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-targz/third\_party/boringssl/crypto/des/des.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

gz/third\_party/boringssl/crypto/bn/div.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/evp/sign.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/tasn\_fre.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/obj/obj\_xref.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_utf8.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/cipher/e\_des.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x\_attrib.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/rc4/rc4.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509\_r2x.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/tasn\_dec.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bn/bn.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/lhash.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/buf/buf.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_time.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/x\_bignum.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bn/mul.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/conf.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509\_d2.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/cipher/derive\_key.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/rsa/rsa.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_strnid.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509\_txt.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/dh.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bio/bio\_mem.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-



gz/third\_party/boringssl/crypto/asn1/f\_string.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_type.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/rsa.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x\_exten.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/a\_strex.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/digest.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_i2d\_fp.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/asn1\_gen.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/des/internal.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bn/cmp.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bio/socket.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bn/shift.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/t\_bitst.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/lhash/lhash.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x\_all.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/a\_sign.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/pem/pem\_oth.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/cipher.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/algorithm.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/by\_dir.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_bool.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/ssl/ssl\_rsa.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/thread.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x\_req.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

gz/third\_party/boringssl/crypto/evp/internal.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x\_name.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/md4/md4.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bio/bio.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/sha.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bio/internal.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/digest/internal.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509\_lu.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/digest/digests.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/buf.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/tasn\_typ.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/sha/sha512.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/x\_long.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/bio.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/i2d\_pr.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/cipher/e\_rc4.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/rc4.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509name.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/t\_req.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x\_spki.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509\_def.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/mem.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/pem/pem\_pk8.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_d2i\_fp.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

gz/third\_party/boringssl/crypto/asn1/a\_bitstr.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509type.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/asn\_pack.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bio/hexdump.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509\_ext.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509\_att.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/hmac.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x\_crl.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/f\_int.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x\_sig.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/cipher/e\_rc2.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x\_info.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/pem/pem\_pkey.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bn/add.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bio/fd.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/blowfish.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/ssl/tls\_method.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509\_cmp.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/pem/pem\_lib.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/sha/sha256.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_int.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/a\_digest.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/f\_enum.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

gz/third\_party/boringssl/include/openssl/thread.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/des.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x\_pubkey.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bio/connect.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bio/file.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_gentm.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_print.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509\_vfy.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/md5/md5.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/base64.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/cast.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/t\_crl.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/rsa/internal.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509\_v3.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/obj.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/cipher/e\_null.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/stack/stack.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bio/printf.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/md5.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/mem.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x\_pkey.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/t\_x509.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/evp/evp\_asn1.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509\_req.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

gz/third\_party/boringssl/crypto/x509/x\_x509.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509\_set.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/dh/dh.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/stack.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509rset.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/cipher/internal.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x509\_obj.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/bn/generic.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/rsa/rsa\_impl.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/t\_x509a.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/asn1\_par.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/by\_file.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_octet.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/conf/conf.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_object.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/cipher/cipher.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/tasn\_utl.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/cpu-intel.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/a\_verify.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/evp/evp.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/x509/x\_val.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/digest/digest.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/ripemd.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_mbstr.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-

gz/third\_party/boringssl/crypto/dh/check.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/sha/sha1.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_utctm.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_enum.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/tasn\_enc.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/base64/base64.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/type\_check.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/evp/evp\_ctx.c  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/include/openssl/md4.h  
\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
gz/third\_party/boringssl/crypto/asn1/a\_dup.c

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\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
 gz/third\_party/boringssl/ssl/handshake\_server.c

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gz/third_party/boringssl/crypto/x509v3/v3_genn.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/x509v3/v3_crl.c

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/* inflate.c -- zlib decompression

```

```

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*/

```

Found in path(s):

```

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```

gz/third\_party/zlib/inflate.c

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```
*/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/include/openssl/tls1.h
```

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```
/* zutil.c -- target dependent utility functions for the compression library
```

```
* Copyright (C) 1995-2017 Jean-loup Gailly
```

```
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```

```
*/
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/zlib/zutil.c
```

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```
/* Authenticated Encryption with Additional Data.
```

```
*
```

```
* AEAD couples confidentiality and integrity in a single primitive. AEAD
```

```
* algorithms take a key and then can seal and open individual messages. Each
```

```
* message has a unique, per-message nonce and, optionally, additional data
```

```
* which is authenticated but not included in the ciphertext.
```

```
*
```

```
* The |EVP_AEAD_CTX_init| function initialises an |EVP_AEAD_CTX| structure and
```

```
* performs any precomputation needed to use |aead| with |key|. The length of
```

```
* the key, |key_len|, is given in bytes.
```

```
*
```

```
* The |tag_len| argument contains the length of the tags, in bytes, and allows
```

```
* for the processing of truncated authenticators. A zero value indicates that
```

- \* the default tag length should be used and this is defined as
- \* `|EVP_AEAD_DEFAULT_TAG_LENGTH|` in order to make the code clear. Using
- \* truncated tags increases an attacker's chance of creating a valid forgery.
- \* Be aware that the attacker's chance may increase more than exponentially as
- \* would naively be expected.
- \*
- \* When no longer needed, the initialised `|EVP_AEAD_CTX|` structure must be
- \* passed to `|EVP_AEAD_CTX_cleanup|`, which will deallocate any memory used.
- \*
- \* With an `|EVP_AEAD_CTX|` in hand, one can seal and open messages. These
- \* operations are intended to meet the standard notions of privacy and
- \* authenticity for authenticated encryption. For formal definitions see
- \* Bellare and Namprempre, "Authenticated encryption: relations among notions
- \* and analysis of the generic composition paradigm," Lecture Notes in Computer
- \* Science B<1976> (2000), 531–545,
- \* <http://www-cse.ucsd.edu/~mihir/papers/oem.html>.
- \*
- \* When sealing messages, a nonce must be given. The length of the nonce is
- \* fixed by the AEAD in use and is returned by `|EVP_AEAD_nonce_length|`. \*The
- \* nonce must be unique for all messages with the same key\*. This is critically
- \* important - nonce reuse may completely undermine the security of the AEAD.
- \* Nonces may be predictable and public, so long as they are unique. Uniqueness
- \* may be achieved with a simple counter or, if large enough, may be generated
- \* randomly. The nonce must be passed into the "open" operation by the receiver
- \* so must either be implicit (e.g. a counter), or must be transmitted along
- \* with the sealed message.
- \*
- \* The "seal" and "open" operations are atomic - an entire message must be
- \* encrypted or decrypted in a single call. Large messages may have to be split
- \* up in order to accomodate this. When doing so, be mindful of the need not to
- \* repeat nonces and the possibility that an attacker could duplicate, reorder
- \* or drop message chunks. For example, using a single key for a given (large)
- \* message and sealing chunks with nonces counting from zero would be secure as
- \* long as the number of chunks was securely transmitted. (Otherwise an
- \* attacker could truncate the message by dropping chunks from the end.)
- \*
- \* The number of chunks could be transmitted by prefixing it to the plaintext,
- \* for example. This also assumes that no other message would ever use the same
- \* key otherwise the rule that nonces must be unique for a given key would be
- \* violated.
- \*
- \* The "seal" and "open" operations also permit additional data to be
- \* authenticated via the `|ad|` parameter. This data is not included in the
- \* ciphertext and must be identical for both the "seal" and "open" call. This
- \* permits implicit context to be authenticated but may be empty if not needed.
- \*
- \* The "seal" and "open" operations may work in-place if the `|out|` and `|in|`
- \* arguments are equal. Otherwise, if `|out|` and `|in|` alias, input data may be

\* overwritten before it is read. This situation will cause an error.  
\*  
\* The "seal" and "open" operations return one on success and zero on error. \*/

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gz/third\_party/boringssl/crypto/x509v3/v3\_ncons.c

\* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-  
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/x509v3/v3_int.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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```

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- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/cares/cares/ares\_dns.h
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/cares/cares/ares\_\_get\_hostent.c
- \* /opt/ws\_local/PERMITS\_SQL/1085830933\_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third\_party/cares/cares/ares\_expand\_name.c

# 1.110 json-java 20090211

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```

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```

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Found in path(s):

\* /opt/cola/permits/1110675269\_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-jar/org/hibernate/validator/internal/util/TypeHelper.java

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\*

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\*/

/\*\*

\* Retrieves constraint related meta data for the parameters of the given

\* executable.

\*

\* @param executable The executable of interest.

\*

\* @return A list with parameter meta data for the given executable.

\*/

Found in path(s):

\* /opt/cola/permits/1110675269\_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java

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\* <p>

\* A method-level constraint, that evaluates a script expression against the

\* annotated method or constructor. This constraint can be used to implement

\* validation routines that depend on several parameters of the annotated

\* executable.

\* </p>

\* <p>

\* Script expressions can be written in any scripting or expression language,

\* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>

\* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be

\* found on the classpath. To refer to a parameter within the scripting

\* expression, use its name as obtained by the active

\* { @link javax.validation.ParameterNameProvider}. By default, { @code arg0}, { @code arg1 } etc.

\* will be used as parameter names.

```

* </p>
* <p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* { @code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
* </pre>
* <p>
* Can be specified on any method or constructor.
* </p>
*
* @author Gunnar Morling
*/

```

Found in path(s):

```

* /opt/cola/permits/1110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/constraints/ParameterScriptAssert.java

```

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```

Found in path(s):

```

* /opt/cola/permits/1110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/cfg/defs/URLDef.java
* /opt/cola/permits/1110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/constraints/Currency.java
* /opt/cola/permits/1110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/internal/metadata/location/package-info.java
* /opt/cola/permits/1110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/internal/constraintvalidators/hv/ScriptAssertContext.java
* /opt/cola/permits/1110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForOffset
DateTime.java
* /opt/cola/permits/1110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/constraints/URL.java
* /opt/cola/permits/1110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/internal/engine/groups/GroupWithInheritance.java
* /opt/cola/permits/1110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
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jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/DecimalMaxValidatorForBigDecimal.java

\* /opt/cola/permits/1110675269\_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-jar/org/hibernate/validator/internal/util/privilegedactions/GetAnnotationAttribute.java

\* /opt/cola/permits/1110675269\_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-jar/org/hibernate/validator/internal/engine/MethodValidationConfiguration.java

\* /opt/cola/permits/1110675269\_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MaxValidatorForFloat.java

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\* /opt/cola/permits/1110675269\_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-jar/org/hibernate/validator/cfg/context/package-info.java

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\* /opt/cola/permits/1110675269\_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-jar/org/hibernate/validator/HibernateValidatorPermission.java

\* /opt/cola/permits/1110675269\_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-jar/org/hibernate/validator/cfg/defs/Mod10CheckDef.java

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## 1.117 lz4 1.7.6

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```

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\* @version 3.0 (December 2000)

\*

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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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If you develop a new program, and you want it to be of the greatest possible use to humanity, 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  
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```

```
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```

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```

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```
Gnomovision version 69, Copyright (C) 19xx 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.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

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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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May 22, 2015

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analysis/common/src/java/net/sf/snowball  
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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,  
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java  
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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java  
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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  
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### Jdom-contrib version 1.1.3

The JTS tests module contains source from JDOM Contrib 1.1.3 which is available under the Jdom License [1]. The

two files are `LineNumberElement.java` and `LineNumberSAXHandler.java`.

Typical users of this library will not need to depend on this module.

[1] <https://github.com/hunterhacker/jdom/blob/master/LICENSE.txt>

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[2] <https://www.osgeo.org/sites/osgeo.org/files/Page/osgeo-bsd-license.txt>

[3] <https://github.com/geotools/geotools/wiki/JTS-ORA-Contribution>

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\* Return the web session for the current request. Always guaranteed to  
\* return an instance either matching to the session id requested by the  
\* client, or with a new session id either because the client did not  
\* specify one or because the underlying session had expired. Use of this  
\* method does not automatically create a session. See {@link WebSession}  
\* for more details.

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*/opt/cola/permits/1110675621_1606843703.05/0/spring-web-5-0-8-release-sources-1-
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jar/org/springframework/http/converter/HttpMessageNotReadableException.java  
\* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-  
jar/org/springframework/web/filter/OncePerRequestFilter.java  
\* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-  
jar/org/springframework/http/converter/HttpMessageNotWritableException.java  
\* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-  
jar/org/springframework/web/bind/support/SpringWebConstraintValidatorFactory.java  
\* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-  
jar/org/springframework/web/bind/annotation/SessionAttributes.java  
\* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-  
jar/org/springframework/web/method/annotation/RequestMethodArgumentResolver.java  
\* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-  
jar/org/springframework/web/server/WebFilter.java  
No license file was found, but licenses were detected in source scan.

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\*/

Found in path(s):

```
* /opt/cola/permits/1110675621_1606843703.05/0/spring-web-5-0-8-release-sources-1-
jar/org/springframework/http/server/ServerHttpRequest.java
* /opt/cola/permits/1110675621_1606843703.05/0/spring-web-5-0-8-release-sources-1-
jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
No license file was found, but licenses were detected in source scan.
```

```
# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <http://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1752884&view=co
#
# MIME type (lowercased) Extensions
# =====
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-inset ez
# application/applefile
application/applixware aw
# application/atf
# application/atfx
application/atom+xml atom
application/atomcat+xml atomcat
# application/atomdeleted+xml
```

# application/atomicmail  
application/atomsvc+xml atomsvc  
# application/atxml  
# application/auth-policy+xml  
# application/bacnet-xdd+zip  
# application/batch-smtp  
# application/beep+xml  
# application/calendar+json  
# application/calendar+xml  
# application/call-completion  
# application/cals-1840  
# application/cbor  
# application/ccmp+xml  
application/ccxml+xml ccxml  
# application/cdfx+xml  
application/cdmi-capability cdmia  
application/cdmi-container cdmic  
application/cdmi-domain cdmid  
application/cdmi-object cdmio  
application/cdmi-queue cdmioq  
# application/cdni  
# application/cea  
# application/cea-2018+xml  
# application/cellml+xml  
# application/cfw  
# application/cms  
# application/cnrx+xml  
# application/coap-group+json  
# application/commonground  
# application/conference-info+xml  
# application/cpl+xml  
# application/csrattrs  
# application/csta+xml  
# application/cstadata+xml  
# application/csvm+json  
application/cu-seeme cu  
# application/cybercash  
# application/dash+xml  
# application/dashdelta  
application/davmount+xml davmount  
# application/dca-rft  
# application/dcd  
# application/dec-dx  
# application/dialog-info+xml  
# application/dicom  
# application/dii  
# application/dit  
# application/dns

application/docbook+xml dbk  
# application/dskpp+xml  
application/dssc+der dssc  
application/dssc+xml xdssc  
# application/dvcs  
application/ecmascript ecma  
# application/edi-consent  
# application/edi-x12  
# application/edifact  
# application/efi  
# application/emergencycalldata.comment+xml  
# application/emergencycalldata.deviceinfo+xml  
# application/emergencycalldata.providerinfo+xml  
# application/emergencycalldata.serviceinfo+xml  
# application/emergencycalldata.subscriberinfo+xml  
application/emma+xml emma  
# application/emotionml+xml  
# application/encaprtp  
# application/epp+xml  
application/epub+zip epub  
# application/eshop  
# application/example  
application/exi exi  
# application/fastinfoset  
# application/fastsoap  
# application/fdt+xml  
# application/fits  
# application/font-sfnt  
application/font-tdpfr pfr  
application/font-woff woff  
# application/framework-attributes+xml  
# application/geo+json  
application/gml+xml gml  
application/gpx+xml gpx  
application/gxf gxf  
# application/gzip  
# application/h224  
# application/held+xml  
# application/http  
application/hyperstudio stk  
# application/ibe-key-request+xml  
# application/ibe-pkg-reply+xml  
# application/ibe-pp-data  
# application/iges  
# application/im-iscomposing+xml  
# application/index  
# application/index.cmd  
# application/index.obj



# application/index.response  
# application/index.vnd  
application/inkml+xml ink inkml  
# application/iotp  
application/ipfix ipfix  
# application/ipp  
# application/isup  
# application/its+xml  
application/java-archive jar  
application/java-serialized-object ser  
application/java-vm class  
application/javascript js  
# application/jose  
# application/jose+json  
# application/jrd+json  
application/json json  
# application/json-patch+json  
# application/json-seq  
application/jsonml+json jsonml  
# application/jwk+json  
# application/jwk-set+json  
# application/jwt  
# application/kpml-request+xml  
# application/kpml-response+xml  
# application/ld+json  
# application/lgr+xml  
# application/link-format  
# application/load-control+xml  
application/lost+xml lostxml  
# application/lostsync+xml  
# application/lxf  
application/mac-binhex40 hqx  
application/mac-compactpro cpt  
# application/macwriteii  
application/mads+xml mads  
application/marc mrc  
application/marcxml+xml mrcx  
application/mathematica ma nb mb  
application/mathml+xml mathml  
# application/mathml-content+xml  
# application/mathml-presentation+xml  
# application/mbms-associated-procedure-description+xml  
# application/mbms-deregister+xml  
# application/mbms-envelope+xml  
# application/mbms-msk+xml  
# application/mbms-msk-response+xml  
# application/mbms-protection-description+xml  
# application/mbms-reception-report+xml

# application/mbms-register+xml  
# application/mbms-register-response+xml  
# application/mbms-schedule+xml  
# application/mbms-user-service-description+xml  
application/mbox mbox  
# application/media-policy-dataset+xml  
# application/media\_control+xml  
application/mediaservercontrol+xml mscml  
# application/merge-patch+json  
application/metalink+xml metalink  
application/metalink4+xml meta4  
application/mets+xml mets  
# application/mf4  
# application/mikey  
application/mods+xml mods  
# application/moss-keys  
# application/moss-signature  
# application/mosskey-data  
# application/mosskey-request  
application/mp21 m21 mp21  
application/mp4 mp4s  
# application/mpeg4-generic  
# application/mpeg4-iod  
# application/mpeg4-iod-xmt  
# application/mrb-consumer+xml  
# application/mrb-publish+xml  
# application/msc-ivr+xml  
# application/msc-mixer+xml  
application/msword doc dot  
application/mxf mxf  
# application/nasdata  
# application/news-checkgroups  
# application/news-groupinfo  
# application/news-transmission  
# application/nlsml+xml  
# application/nss  
# application/ocsp-request  
# application/ocsp-response  
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy  
application/oda oda  
# application/odx  
application/oebps-package+xml opf  
application/ogg ogx  
application/omdoc+xml omdoc  
application/onenote onetoc onetoc2 onetmp onepkg  
application/oxps oxps  
# application/p2p-overlay+xml  
# application/parityfec

application/patch-ops-error+xml xer  
application/pdf pdf  
# application/pdx  
application/pgp-encrypted pgp  
# application/pgp-keys  
application/pgp-signature asc sig  
application/pics-rules prf  
# application/pidf+xml  
# application/pidf-diff+xml  
application/pkcs10 p10  
# application/pkcs12  
application/pkcs7-mime p7m p7c  
application/pkcs7-signature p7s  
application/pkcs8 p8  
application/pkix-attr-cert ac  
application/pkix-cert cer  
application/pkix-crl crl  
application/pkix-pkipath pkipath  
application/pkixcmp pki  
application/pls+xml pls  
# application/poc-settings+xml  
application/postscript ai eps ps  
# application/ppsp-tracker+json  
# application/problem+json  
# application/problem+xml  
# application/provenance+xml  
# application/prs.alvestrand.titrax-sheet  
application/prs.cww cww  
# application/prs.hpub+zip  
# application/prs.nprend  
# application/prs.plucker  
# application/prs.rdf-xml-crypt  
# application/prs.xsf+xml  
application/pskc+xml pskcxml  
# application/qsig  
# application/raptorfec  
# application/rdap+json  
application/rdf+xml rdf  
application/reginfo+xml rif  
application/relax-ng-compact-syntax rnc  
# application/remote-printing  
# application/reputon+json  
application/resource-lists+xml rl  
application/resource-lists-diff+xml rld  
# application/rfc+xml  
# application/riscos  
# application/rlmi+xml  
application/rls-services+xml rs

application/rpki-ghostbusters gbr  
application/rpki-manifest mft  
application/rpki-roa roa  
# application/rpki-updown  
application/rsd+xml rsd  
application/rss+xml rss  
application/rtf rtf  
# application/rtploopback  
# application/rtx  
# application/samlassertion+xml  
# application/samlmetadata+xml  
application/sbml+xml sbml  
# application/scaip+xml  
# application/scim+json  
application/scvp-cv-request scq  
application/scvp-cv-response scs  
application/scvp-vp-request spq  
application/scvp-vp-response spp  
application/sdp sdp  
# application/sep+xml  
# application/sep-exi  
# application/session-info  
# application/set-payment  
application/set-payment-initiation setpay  
# application/set-registration  
application/set-registration-initiation setreg  
# application/sgml  
# application/sgml-open-catalog  
application/shf+xml shf  
# application/sieve  
# application/simple-filter+xml  
# application/simple-message-summary  
# application/simplesymbolcontainer  
# application/slate  
# application/smil  
application/smil+xml smi smil  
# application/smpite336m  
# application/soap+fastinfoset  
# application/soap+xml  
application/sparql-query rq  
application/sparql-results+xml srx  
# application/spirits-event+xml  
# application/sql  
application/srgs gram  
application/srgs+xml grxml  
application/sru+xml sru  
application/ssdl+xml ssdl  
application/ssml+xml ssml

# application/tamp-apex-update  
# application/tamp-apex-update-confirm  
# application/tamp-community-update  
# application/tamp-community-update-confirm  
# application/tamp-error  
# application/tamp-sequence-adjust  
# application/tamp-sequence-adjust-confirm  
# application/tamp-status-query  
# application/tamp-status-response  
# application/tamp-update  
# application/tamp-update-confirm  
application/tei+xml tei teicorpus  
application/thraud+xml tfi  
# application/timestamp-query  
# application/timestamp-reply  
application/timestamped-data tsd  
# application/ttml+xml  
# application/tve-trigger  
# application/ulpfec  
# application/urc-grpsheet+xml  
# application/urc-ressheet+xml  
# application/urc-targetdesc+xml  
# application/urc-uisocketdesc+xml  
# application/vcard+json  
# application/vcard+xml  
# application/vemmi  
# application/vividence.scriptfile  
# application/vnd.3gpp-prose+xml  
# application/vnd.3gpp-prose-pc3ch+xml  
# application/vnd.3gpp.access-transfer-events+xml  
# application/vnd.3gpp.bsf+xml  
# application/vnd.3gpp.mid-call+xml  
application/vnd.3gpp.pic-bw-large plb  
application/vnd.3gpp.pic-bw-small psb  
application/vnd.3gpp.pic-bw-var pvb  
# application/vnd.3gpp.sms  
# application/vnd.3gpp.sms+xml  
# application/vnd.3gpp.srvcc-ext+xml  
# application/vnd.3gpp.srvcc-info+xml  
# application/vnd.3gpp.state-and-event-info+xml  
# application/vnd.3gpp.ussd+xml  
# application/vnd.3gpp2.bcsmcinfo+xml  
# application/vnd.3gpp2.sms  
application/vnd.3gpp2.tcap tcap  
# application/vnd.3lightssoftware.imagescal  
application/vnd.3m.post-it-notes pwn  
application/vnd.accpac.simply.aso aso  
application/vnd.accpac.simply.imp imp

application/vnd.acucobol acu  
application/vnd.acucorp atc acute  
application/vnd.adobe.air-application-installer-package+zip air  
# application/vnd.adobe.flash.movie  
application/vnd.adobe.formscentral.fcdt fcdt  
application/vnd.adobe.fxp fxp fxpl  
# application/vnd.adobe.partial-upload  
application/vnd.adobe.xdp+xml xdp  
application/vnd.adobe.xfdf xfdf  
# application/vnd.aether.imp  
# application/vnd.ah-barcode  
application/vnd.ahead.space ahead  
application/vnd.airzip.filesecure.azf azf  
application/vnd.airzip.filesecure.azs azs  
application/vnd.amazon.ebook azw  
# application/vnd.amazon.mobi8-ebook  
application/vnd.americandynamics.acc acc  
application/vnd.amiga.ami ami  
# application/vnd.amundsen.maze+xml  
application/vnd.android.package-archive apk  
# application/vnd.anki  
application/vnd.anser-web-certificate-issue-initiation cii  
application/vnd.anser-web-funds-transfer-initiation fti  
application/vnd.antix.game-component atx  
# application/vnd.apache.thrift.binary  
# application/vnd.apache.thrift.compact  
# application/vnd.apache.thrift.json  
# application/vnd.api+json  
application/vnd.apple.installer+xml mpkg  
application/vnd.apple.mpegurl m3u8  
# application/vnd.arastra.swi  
application/vnd.aristanetworks.swi swi  
# application/vnd.artsquare  
application/vnd.astraea-software.iota iota  
application/vnd.audiograph aep  
# application/vnd.autopackage  
# application/vnd.avistar+xml  
# application/vnd.balsamiq.bmml+xml  
# application/vnd.balsamiq.bmpr  
# application/vnd.bekitzur-stech+json  
# application/vnd.biopax.rdf+xml  
application/vnd.blueice.multipass mpm  
# application/vnd.bluetooth.ep.oob  
# application/vnd.bluetooth.le.oob  
application/vnd.bmi bmi  
application/vnd.businessobjects rep  
# application/vnd.cab-jscript  
# application/vnd.canon-cpdl

# application/vnd.canon-lips  
# application/vnd.cendio.thinlinc.clientconf  
# application/vnd.century-systems.tcp\_stream  
application/vnd.chemdraw+xml cdxml  
# application/vnd.chess-pgn  
application/vnd.chipnuts.karaoke-mmd mmd  
application/vnd.cinderella cdy  
# application/vnd.cirpack.isdn-ext  
# application/vnd.citationstyles.style+xml  
application/vnd.claymore cla  
application/vnd.cloanto.rp9 rp9  
application/vnd.clonk.c4group c4g c4d c4f c4p c4u  
application/vnd.cluetrust.cartomobile-config c11amc  
application/vnd.cluetrust.cartomobile-config-pkg c11amz  
# application/vnd.coffeescript  
# application/vnd.collection+json  
# application/vnd.collection.doc+json  
# application/vnd.collection.next+json  
# application/vnd.comicbook+zip  
# application/vnd.commerce-battelle  
application/vnd.commonspace csp  
application/vnd.contact.cmsg cdbcmg  
# application/vnd.coreos.ignition+json  
application/vnd.cosmocaller cmc  
application/vnd.crick.clicker clkx  
application/vnd.crick.clicker.keyboard clkk  
application/vnd.crick.clicker.palette clkp  
application/vnd.crick.clicker.template clkt  
application/vnd.crick.clicker.wordbank clkw  
application/vnd.criticaltools.wbs+xml wbs  
application/vnd.ctc-posml pml  
# application/vnd.ctct.ws+xml  
# application/vnd.cups-pdf  
# application/vnd.cups-postscript  
application/vnd.cups-ppd ppd  
# application/vnd.cups-raster  
# application/vnd.cups-raw  
# application/vnd.curl  
application/vnd.curl.car car  
application/vnd.curl.pcurl pcurl  
# application/vnd.cyan.dean.root+xml  
# application/vnd.cybank  
application/vnd.dart dart  
application/vnd.data-vision.rdz rdz  
# application/vnd.debian.binary-package  
application/vnd.dece.data uvf uvvf uvd uvvd  
application/vnd.dece.ttml+xml uvt uvvt  
application/vnd.dece.unspecified uvx uvvx

application/vnd.dece.zip uvz uvvz  
application/vnd.denovo.fcslayout-link fe\_launch  
# application/vnd.desmume.movie  
# application/vnd.dir-bi.plate-dl-nosuffix  
# application/vnd.dm.delegation+xml  
application/vnd.dna dna  
# application/vnd.document+json  
application/vnd.dolby.mlp mlp  
# application/vnd.dolby.mobile.1  
# application/vnd.dolby.mobile.2  
# application/vnd.doremir.scorecloud-binary-document  
application/vnd.dpgraph dpg  
application/vnd.dreamfactory dfac  
# application/vnd.drive+json  
application/vnd.ds-keypoint kpxx  
# application/vnd.dtg.local  
# application/vnd.dtg.local.flash  
# application/vnd.dtg.local.html  
application/vnd.dvb.ait ait  
# application/vnd.dvb.dvbj  
# application/vnd.dvb.esgcontainer  
# application/vnd.dvb.ipdcdftnotifaccess  
# application/vnd.dvb.ipdcesgaccess  
# application/vnd.dvb.ipdcesgaccess2  
# application/vnd.dvb.ipdcesgpdd  
# application/vnd.dvb.ipdcroaming  
# application/vnd.dvb.iptv.alfec-base  
# application/vnd.dvb.iptv.alfec-enhancement  
# application/vnd.dvb.notif-aggregate-root+xml  
# application/vnd.dvb.notif-container+xml  
# application/vnd.dvb.notif-generic+xml  
# application/vnd.dvb.notif-ia-msglist+xml  
# application/vnd.dvb.notif-ia-registration-request+xml  
# application/vnd.dvb.notif-ia-registration-response+xml  
# application/vnd.dvb.notif-init+xml  
# application/vnd.dvb.pfr  
application/vnd.dvb.service svc  
# application/vnd.dxr  
application/vnd.dynageo geo  
# application/vnd.dzr  
# application/vnd.easykaraoke.cdgdownload  
# application/vnd.ecdis-update  
application/vnd.ecowin.chart mag  
# application/vnd.ecowin.filerequest  
# application/vnd.ecowin.fileupdate  
# application/vnd.ecowin.series  
# application/vnd.ecowin.seriesrequest  
# application/vnd.ecowin.seriesupdate



# application/vnd.emclient.accessrequest+xml  
application/vnd.enliven nml  
# application/vnd.enphase.envoy  
# application/vnd.eprints.data+xml  
application/vnd.epson.esf esf  
application/vnd.epson.msf msf  
application/vnd.epson.quickanime qam  
application/vnd.epson.salt slt  
application/vnd.epson.ssf ssf  
# application/vnd.ericsson.quickcall  
application/vnd.eszigno3+xml es3 et3  
# application/vnd.etsi.aoc+xml  
# application/vnd.etsi.asic-e+zip  
# application/vnd.etsi.asic-s+zip  
# application/vnd.etsi.cug+xml  
# application/vnd.etsi.iptvcommand+xml  
# application/vnd.etsi.iptvdiscovery+xml  
# application/vnd.etsi.iptvprofile+xml  
# application/vnd.etsi.iptvsad-bc+xml  
# application/vnd.etsi.iptvsad-cod+xml  
# application/vnd.etsi.iptvsad-npvr+xml  
# application/vnd.etsi.iptvservice+xml  
# application/vnd.etsi.iptvsync+xml  
# application/vnd.etsi.iptvueprofile+xml  
# application/vnd.etsi.mcid+xml  
# application/vnd.etsi.mheg5  
# application/vnd.etsi.overload-control-policy-dataset+xml  
# application/vnd.etsi.pstn+xml  
# application/vnd.etsi.sci+xml  
# application/vnd.etsi.simservs+xml  
# application/vnd.etsi.timestamp-token  
# application/vnd.etsi.tsl+xml  
# application/vnd.etsi.tsl.der  
# application/vnd.eudora.data  
application/vnd.ezpix-album ez2  
application/vnd.ezpix-package ez3  
# application/vnd.f-secure.mobile  
# application/vnd.fastcopy-disk-image  
application/vnd.fdf fdf  
application/vnd.fdsn.mseed mseed  
application/vnd.fdsn.seed seed dataless  
# application/vnd.ffmpeg  
# application/vnd.filmit.zfc  
# application/vnd.fints  
# application/vnd.firemonkeys.cloudcell  
application/vnd.flographit gph  
application/vnd.fluxtime.clip ftc  
# application/vnd.font-fontforge-sfd

application/vnd.framemaker fm frame maker book  
application/vnd.frogans.fnc fnc  
application/vnd.frogans.ltf ltf  
application/vnd.fsc.weblaunch fsc  
application/vnd.fujitsu.oasys oas  
application/vnd.fujitsu.oasys2 oa2  
application/vnd.fujitsu.oasys3 oa3  
application/vnd.fujitsu.oasysgp fg5  
application/vnd.fujitsu.oasysprs bh2  
# application/vnd.fujixerox.art-ex  
# application/vnd.fujixerox.art4  
application/vnd.fujixerox.ddd ddd  
application/vnd.fujixerox.docuworks xdw  
application/vnd.fujixerox.docuworks.binder xbd  
# application/vnd.fujixerox.docuworks.container  
# application/vnd.fujixerox.hbpl  
# application/vnd.fut-misnet  
application/vnd.fuzzysheet fzs  
application/vnd.genomatix.tuxedo txd  
# application/vnd.geo+json  
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application/vnd.shana.informed.interchange iif  
application/vnd.shana.informed.package ipk  
application/vnd.simtech-mindmapper twd twds  
# application/vnd.siren+json  
application/vnd.smf mmf  
# application/vnd.smart.notebook  
application/vnd.smart.teacher teacher  
# application/vnd.software602.filler.form+xml  
# application/vnd.software602.filler.form+xml-zip  
application/vnd.solent.sdkm+xml sdkm sdkd  
application/vnd.spotfire.dxp dxp  
application/vnd.spotfire.sfs sfs  
# application/vnd.sss-cod  
# application/vnd.sss-dtf

```
# application/vnd.sss-ntf
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application/vnd.stardivision.draw sda
application/vnd.stardivision.impress sdd
application/vnd.stardivision.math smf
application/vnd.stardivision.writer sdw vor
application/vnd.stardivision.writer-global sgl
application/vnd.stepmania.package smzip
application/vnd.stepmania.stepchart sm
# application/vnd.street-stream
# application/vnd.sun.wadl+xml
application/vnd.sun.xml.calc sxc
application/vnd.sun.xml.calc.template stc
application/vnd.sun.xml.draw sxd
application/vnd.sun.xml.draw.template std
application/vnd.sun.xml.impress sxi
application/vnd.sun.xml.impress.template sti
application/vnd.sun.xml.math sxm
application/vnd.sun.xml.writer sxw
application/vnd.sun.xml.writer.global sxc
application/vnd.sun.xml.writer.template stw
application/vnd.sus-calendar sus susp
application/vnd.svd svd
# application/vnd.swiftview-ics
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application/vnd.syncml.dm+wbxml bdm
application/vnd.syncml.dm+xml xdm
# application/vnd.syncml.dm.notification
# application/vnd.syncml.dmddf+wbxml
# application/vnd.syncml.dmddf+xml
# application/vnd.syncml.dmtnds+wbxml
# application/vnd.syncml.dmtnds+xml
# application/vnd.syncml.ds.notification
application/vnd.tao.intent-module-archive tao
application/vnd.tcpdump.pcap pcap cap dmp
# application/vnd.tmd.mediaflex.api+xml
# application/vnd.tml
application/vnd.tmobile-livetv tmo
application/vnd.trid.tpt tpt
application/vnd.triscape.mxs mxs
application/vnd.trueapp tra
# application/vnd.truedoc
# application/vnd.ubisoft.webplayer
application/vnd.ufdl ufd ufdl
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application/vnd.umajin umj
application/vnd.unity unityweb
```

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# application/vnd.uplanet.alert-wbxml  
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# application/watcherinfo+xml  
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# application/whoispp-response  
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# application/wita  
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application/wspolicy+xml wspolicy  
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application/x-abiword abw  
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application/x-mie mie  
application/x-mobipocket-ebook prc mobi



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audio/x-matroska  mka
audio/x-mpegurl  m3u
audio/x-ms-wax  wax
audio/x-ms-wma  wma
audio/x-pn-realaudio  ram ra
audio/x-pn-realaudio-plugin  rmp
# audio/x-tta
```

audio/x-wav wav  
audio/xm xm  
chemical/x-cdx cdx  
chemical/x-cif cif  
chemical/x-cmdf cmdf  
chemical/x-cml cml  
chemical/x-csml csml  
# chemical/x-pdb  
chemical/x-xyz xyz  
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image/cgm cgm  
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# image/emf  
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image/g3fax g3  
image/gif gif  
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# image/jls  
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# message/disposition-notification
# message/example
# message/external-body
# message/feedback-report
# message/global
# message/global-delivery-status
# message/global-disposition-notification
# message/global-headers
# message/http
# message/imdn+xml
# message/news
```

# message/partial  
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# message/sipfrag  
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# message/vnd.wfa.wsc  
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# video/dv  
# video/encaprtsp  
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\* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-jar/org/springframework/http/mime.types

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- \* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-jar/org/springframework/web/context/ConfigurableWebEnvironment.java
- \* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-jar/org/springframework/remoting/httpinvoker/HttpInvokerClientConfiguration.java
- \* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-jar/org/springframework/web/bind/annotation/ValueConstants.java
- \* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-jar/org/springframework/web/context/ServletConfigAware.java
- \* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-jar/org/springframework/web/jsf/DelegatingPhaseListenerMulticaster.java
- \* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-jar/org/springframework/web/WebApplicationInitializer.java
- \* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-jar/org/springframework/web/bind/MissingServletRequestParameterException.java
- \* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
- \* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-jar/org/springframework/web/HttpMediaTypeNotAcceptableException.java
- \* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-jar/org/springframework/web/client/ResourceAccessException.java
- \* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-jar/org/springframework/http/client/AbstractClientHttpResponse.java
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- \* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-jar/org/springframework/web/bind/support/SimpleSessionStatus.java
- \* /opt/cola/permits/1110675621\_1606843703.05/0/spring-web-5-0-8-release-sources-1-jar/org/springframework/web/jsf/DecoratingNavigationHandler.java
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```

You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the `_source_`, and the name of the copy is the `_destination_`. In ``schema.xml``, it's very simple to make copies of fields:

```
[source.xml]
----
<copyField source="cat" dest="text" maxChars="30000" />
----
```

In this example, we want Solr to copy the ``cat`` field to a field named ``text``. Fields are copied before `<<understanding-analyzers-tokenizers-and-filters.adoc#understanding-analyzers-tokenizers-and-filters,analysis>>` is done, meaning you can have two fields with identical original content, but which use different analysis chains and are stored in the index differently.

In the example above, if the ``text`` destination field has data of its own in the input documents, the contents of the ``cat`` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as ``multivalued="true"``` if they will ultimately get multiple values (either from a multivalued source or from multiple ``copyField`` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, ``title``, ``author``, ``keywords``, and ``body`` may all be fields that should be searched by default, with copy field rules for each field to copy to a ``catchall`` field (for example, it could be named anything). Later you can set a rule in ``solrconfig.xml`` to search the ``catchall`` field by default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The ``maxChars`` parameter, an ``int`` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.

Both the source and the destination of ``copyField`` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern ``*_t`` to the text field.:

```
[source,xml]
----
<copyField source="*_t" dest="text" maxChars="25000" />
----
```

#### [IMPORTANT]

=====

The ``copyField`` command can use a wildcard (\*) character in the ``dest`` parameter only if the ``source`` parameter contains one as well. ``copyField`` uses the matching glob from the source field for the ``dest`` field name into which the source content is copied.

=====

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., `_you cannot_` copy from ``here`` to ``there`` and then from ``there`` to ``elsewhere``. However, the same source field can be copied to multiple destination fields:

```
[source,xml]
----
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
----
```

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Typical users of this library will not need to depend on this module.

[1] <https://github.com/hunterhacker/jdom/blob/master/LICENSE.txt>

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jackson-jq

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Apache Tika Java 7 detectors

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interface and high-performance Typed Access API.

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Developer: Tatu Saloranta <tatu@fasterxml.com>

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---

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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NekoHTML is a simple HTML scanner and tag balancer that enables application programmers to parse HTML documents and access the information using standard XML interfaces. The parser can scan HTML files and "fix up" many common mistakes that human (and computer) authors make in writing HTML documents. NekoHTML adds missing parent



elements; automatically closes elements with optional end tags; and can handle mismatched inline element tags.

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.

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boilerpipe

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[2] <http://www.ecma-international.org/memento/Ecmabylaws.htm>

[3] <http://www.microsoft.com/interop/osp/>

[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ECMA-376%20Edition%201%20Microsoft%20Patent%20Declaration.pdf>

[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ga-2006-191.pdf>

#### DOM4J library (dom4j-1.6.1.jar)

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JUnit test library (junit-3.8.1.jar)

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Woodstox is an XML-parser that allows parsing of XML documents in so-called  
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It specifically implements StAX 1.0 API:

<http://www.jcp.org/en/jsr/detail?id=173>

which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<[tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)>).

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XZ for Java 1.0 (2011-10-22)

<http://tukaani.org/xz/java.html>

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jsonic - simple json encoder/decoder for java

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May 22, 2015

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```
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The primary ANTLR guy:

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Nori Korean Morphological Analyzer - Apache Lucene Integration

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# 1.129 pyliblzma 0.5.3-11.el7

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## 1.132 systemd 219-67.el7\_7.4

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# 1.134 dns 3.1.5

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Version 3, 29 June 2007

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

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object



file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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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## 1.137 go-yaml 2.4.0

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## 1.157 dc 1.3

### 1.157.1 Available under license :

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```
<label opaque="NO" clipsSubviews="YES" userInteractionEnabled="NO" contentMode="left"
horizontalHuggingPriority="251" verticalHuggingPriority="251" text=" Copyright (c) 2015 DC. All rights
reserved." textAlignment="center" lineBreakMode="tailTruncation" baselineAdjustment="alignBaselines"
minimumFontSize="9" translatesAutoresizingMaskIntoConstraints="NO" id="8ie-xW-0ye">
```

Found in path(s):

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example-Swift/Example-Swift/Base.lproj/LaunchScreen.xib
```

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```
// Copyright (c) 2015 DC. All rights reserved.
```

Found in path(s):

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example-Swift/Example-Swift/ViewController.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example-Swift/Example-Swift/AppDelegate.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example-Swift/Example-SwiftTests/Example_SwiftTests.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example-Swift/Example-Swift-Bridging-Header.h
```

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```
<string>The DCPathButton use the MIT license</string>
```

Found in path(s):

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.plist
```

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\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarButtonItemViewController.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarButtonItemViewController.h

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

Pod::Spec.new do |s|

s.name = "DCPathButton"

s.version = "2.1.1"

s.summary = " A beautiful button copy from Path@ "

s.description = <<-DESC

DCPathButton is a menu button, design by an famous App Path@.

Since Path@ 4.0, it return to use a tab bar instead of a side bar,

and also change the menu button. So I try to implement it and then

the DCPathButton born :)

DESC

s.homepage = "https://github.com/Tangdixi/DCPathButton"

s.license = {

:type => 'MIT',

:text => 'The DCPathButton use the MIT license'

}

s.author = { "Tangdixi" => "Tangdixi@gmail.com" }

s.platform = :ios, '7.0'

s.source = {

:git => "https://github.com/Tangdixi/DCPathButton.git",

:tag => "2.1.1"

}

s.source\_files = 'DCPathButton/Classes/\*.{h,m}'

s.resources = ["DCPathButton/Sounds/\*"]

s.frameworks = 'QuartzCore','AudioToolbox'

s.requires\_arc = true

end

Found in path(s):

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton.podspec

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# Acknowledgements

This application makes use of the following third party libraries:

## DCPATHBUTTON

The DCPATHBUTTON use the MIT license

Generated by CocoaPods - <http://cocoapods.org>

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\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/README.md

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Found in path(s):

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\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/ExampleTests/ExampleTests.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathButton.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathButton.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/main.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathButton.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathButton.m  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/AppDelegate.m  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.h  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.h  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.m  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.m  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/AppDelegate.h  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.h  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.m

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\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/LISENCE

# 1.158 device-mapper-multipath 0.4.9-127.el7

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

```
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/frandom/frandom.c
#
# EOF
```

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```
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jar/org/springframework/plugin/metadata/PluginMetadata.java  
* /opt/cola/permits/1110676852_1606843904.86/0/spring-plugin-metadata-1-2-0-release-sources-3-  
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[The licence continues]

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## 1.171 nss-softokn 3.44.0-8.el7\_7

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

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

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

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

Release from	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes

2.3.2	2.3.1	2002-2003	PSF	yes
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```
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989  
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The End

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## 1.180 plexus-io 2.0.4

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# 1.181 mapstruct 1.2.0.Final

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# 1.182 commons-collections 4.3

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- \* /opt/cola/permits/1103525571\_1607113387.65/0/nashorn-8-jar/jdk/nashorn/internal/runtime/resources/fx/bootstrap.js
  - \* /opt/cola/permits/1103525571\_1607113387.65/0/nashorn-8-jar/jdk/nashorn/internal/runtime/resources/fx/base.js
  - \* /opt/cola/permits/1103525571\_1607113387.65/0/nashorn-8-jar/jdk/nashorn/internal/runtime/resources/fx/swt.js
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  - \* /opt/cola/permits/1103525571\_1607113387.65/0/nashorn-8-jar/jdk/nashorn/internal/runtime/resources/fx/media.js
  - \* /opt/cola/permits/1103525571\_1607113387.65/0/nashorn-8-jar/jdk/nashorn/internal/runtime/resources/fx/swing.js
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- \* /opt/cola/permits/1103525571\_1607113387.65/0/nashorn-8-jar/jdk/nashorn/internal/runtime/resources/mozilla\_compat.js
  - \* /opt/cola/permits/1103525571\_1607113387.65/0/nashorn-8-jar/jdk/nashorn/internal/runtime/resources/parser.js
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jar/jdk/nashorn/internal/runtime/resources/Messages.properties
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jar/jdk/nashorn/internal/runtime/resources/Options.properties

\* /opt/cola/permits/1103525571\_1607113387.65/0/nashorn-8-jar/jdk/nashorn/tools/resources/Shell.properties

\* /opt/cola/permits/1103525571\_1607113387.65/0/nashorn-8-

jar/jdk/nashorn/api/scripting/resources/Messages.properties

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jdk.nashorn.api.scripting.NashornScriptEngineFactory

Found in path(s):

\* /opt/cola/permits/1103525571\_1607113387.65/0/nashorn-8-jar/META-

INF/services/javafx.script.ScriptEngineFactory

# 1.185 lvm2 2.02.185-2.el7atomix1

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The snowball stemmers in  
analysis/common/src/java/net/sf/snowball  
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The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default  
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analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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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/es/SpanishLightStemmer.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

The Stempel analyzer (stempel) includes BSD-licensed software developed  
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```

```
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\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/AfterAdvice.java  
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\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/framework/AdvisedSupportListener.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java  
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\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/framework/AopInfrastructureBean.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/RawTargetAccess.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/config/AspectEntry.java

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*/opt/cola/permits/1110675836_1606843668.64/0/spring-aop-5-0-8-release-sources-1-
jar/org/springframework/aop/support/ClassFilters.java
*/opt/cola/permits/1110675836_1606843668.64/0/spring-aop-5-0-8-release-sources-1-
jar/org/springframework/aop/aspectj/AspectJWeaverMessageHandler.java
*/opt/cola/permits/1110675836_1606843668.64/0/spring-aop-5-0-8-release-sources-1-
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jar/org/springframework/aop/framework/autopxy/target/LazyInitTargetSourceCreator.java
*/opt/cola/permits/1110675836_1606843668.64/0/spring-aop-5-0-8-release-sources-1-
jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java
*/opt/cola/permits/1110675836_1606843668.64/0/spring-aop-5-0-8-release-sources-1-
jar/org/springframework/aop/target/PrototypeTargetSource.java
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\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java

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\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/config/AspectComponentDefinition.java

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\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java

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\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java

\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAspectJAutoProxyCreator.java

\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-

jar/org/springframework/aop/support/AbstractExpressionPointcut.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/config/MethodLocatingFactoryBean.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/support/ExpressionPointcut.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/aspectj/AspectJAroundAdvice.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/config/AopNamespaceUtils.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/framework/autoproxy/AbstractBeanFactoryAwareAdvisingPostProcessor.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/config/AopConfigUtils.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/support/AbstractPointcutAdvisor.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/support/DelegatingIntroductionInterceptor.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/interceptor/AbstractTraceInterceptor.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/Advisor.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/config/AdvisorComponentDefinition.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/interceptor/AsyncExecutionAspectSupport.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java  
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\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistrationManager.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-



jar/org/springframework/aop/target/SimpleBeanTargetSource.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/framework/adaptor/GlobalAdvisorAdapterRegistry.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/AopInvocationException.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/interceptor/ExposeBeanNameAdvisors.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/PointcutAdvisor.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/support/JdkRegexpMethodPointcut.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/framework/adaptor/AdvisorAdapter.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/target/SingletonTargetSource.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/MethodBeforeAdvice.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/config/PointcutEntry.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/scope/ScopedObject.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/framework/adaptor/UnknownAdviceTypeException.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/AfterReturningAdvice.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/framework/adaptor/AfterReturningAdviceAdapter.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/config/AdviceEntry.java

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\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/aopalliance/intercept/MethodInterceptor.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/framework/AopContext.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/target/ThreadLocalTargetSource.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/aopalliance/intercept/Interceptor.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-jar/org/aopalliance/intercept/MethodInvocation.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-

jar/org/springframework/aop/ClassFilter.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/aopalliance/intercept/ConstructorInterceptor.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/aopalliance/aop/Advice.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java  
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jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/target/dynamic/AbstractRefreshableTargetSource.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
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\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/framework/ProxyFactory.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/aopalliance/intercept/Joinpoint.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/aopalliance/aop/AspectException.java  
\* /opt/cola/permits/1110675836\_1606843668.64/0/spring-aop-5-0-8-release-sources-1-  
jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java

# 1.198 alsa-lib 1.1.8 1.e17

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| Ext headers    | GL/ glxext.h          | Khronos        |
|                | GL/ glxext.h          | Khronos        |
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Mesa 3-D graphics library

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include/GL/glex.h

include/GL/glxext.h

include/GL/wglxext.h :

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## 1.201 gnupg 2.0.22 5.el7\_5

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## 1.202 libglvnd 1.0.1-0.8.git5baa1e5.el7

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```
<!DOCTYPE html
  PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
  <link rel="stylesheet" type="text/css" href="styles.css" />
  <title>uthash: a hash table for C structures</title>
</head>
```

```
<body>

<div id="banner">

</div> <!-- banner -->

<div id="topnav">
<a href="http://troydhanson.github.com/uthash/">uthash home</a> &gt;
BSD license
</div>

<hr />
<div id="mid">
  <div id="main">
<pre>
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LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
</pre>
</div> <!-- mid -->
</div> <!-- main -->

<hr />
<div id="footer">
</div> <!-- footer -->

</body>

</html>
```

# 1.203 readline 6.2-11e17

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Version 3, 29 June 2007

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# 1.206 ncurses 6.1-

## 15.20191109.el7\_7.0atomix1

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $
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## 1.209 elasticsearch-rest-high-level-client 6.8.5

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## 1.211 elasticsearch-core 6.8.5

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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

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

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

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"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.)

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.

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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

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

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<signature of Ty Coon>, 1 April 1990

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(This file is under construction.) -\*- text -\*-

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

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

+++++

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

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

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

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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- RSA is no longer included, found in the OpenSSL library

- IDEA is no longer included, its use is deprecated
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- TSS has been removed
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[The licence continues]

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# 1.217 cyrus-sasl 2.1.26 23.el7

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```

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```

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/\* CMU libsasl

\* Tim Martin

\* Rob Earhart

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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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# 1.222 centos-release-qemu-ev 1.0-4.el7.centos

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## 1.227 librdkafka 1.3.0

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parts of src/rdmurmur2.c: git@github.com:abandoned/murmur2.git

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librdkafka - Apache Kafka C driver library

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# <http://stackoverflow.com/a/17646775/1821055>

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src/xxhash.[ch] src/lz4\*.[ch]: git@github.com:lz4/lz4.git e2827775ee80d2ef985858727575df31fc60f1f3

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at revision 3a0bb77429bd3a61596f5e8a3172445844342120

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\* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/TypeReference.java

\* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/TypePath.java

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- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/util/UpdateMessageDigestInputStream.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/AliasRegistry.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/type/AnnotatedTypeMetadata.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/type/StandardMethodMetadata.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/Ordered.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/util/IdGenerator.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/util/SimpleIdGenerator.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/serializer/DefaultSerializer.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/serializer/support/SerializingConverter.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/convert/support/FallbackObjectToStringConverter.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/annotation/AnnotationConfigurationException.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/util/JdkIdGenerator.java
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- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/convert/support/StringToUUIDConverter.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/io/support/ResourcePropertySource.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/env/EnumerablePropertySource.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-



jar/org/springframework/core/convert/support/StringToCurrencyConverter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-  
jar/org/springframework/core/serializer/support/SerializationDelegate.java  
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jar/org/springframework/cglib/SpringCglibInfo.java  
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jar/org/springframework/core/io/support/ResourcePatternResolver.java  
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jar/org/springframework/core/type/filter/RegexPatternTypeFilter.java  
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/convert/ConversionException.java  
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- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/Attribute.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/CurrentFrame.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/ModuleWriter.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/ByteVector.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/Label.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/Frame.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/Edge.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/Opcodes.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/ClassReader.java
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- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/Type.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/AnnotationVisitor.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/MethodWriter.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/ModuleVisitor.java
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- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/Item.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/Handle.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/asm/FieldVisitor.java

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Found in path(s):

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\* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-  
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\* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-  
jar/org/springframework/core/codec/AbstractDataBufferDecoder.java  
No license file was found, but licenses were detected in source scan.

```
/*  
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* 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.  
*/
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- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/SmartClassLoader.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/util/CommonsLogWriter.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/style/DefaultValueStyler.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/ParameterNameDiscoverer.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/AttributeAccessor.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/InfrastructureProxy.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/task/support/ConcurrentExecutorAdapter.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/task/TaskTimeoutException.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/style/StylerUtils.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/task/SyncTaskExecutor.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/task/TaskRejectedException.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/io/ClassRelativeResourceLoader.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/util/xml/SimpleTransformErrorListener.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/type/classreading/MetadataReaderFactory.java
- \* /opt/ws\_local/PERMITS\_SQL/1068965795\_1594435875.33/0/spring-core-5-0-8-release-sources-1-jar/org/springframework/core/serializer/support/SerializationFailedException.java

## 1.230 libjpeg-turbo 1.2.90 8.e17

### 1.230.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

### 1.230.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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This distribution contains the sixth 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.

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

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

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

## DOCUMENTATION ROADMAP

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This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

install.doc        How to configure and install the IJG software.  
usage.doc         Usage instructions for cjpeg, djpeg, jpegtran,  
                  rdjpgcom, and wjjpgcom.  
\*.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.  
coderrules.doc    Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information

can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

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

## OVERVIEW

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

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

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

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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:

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- (1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
- (2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
- (3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch, sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA. ansi2knr.c is NOT covered by the above copyright and conditions, but instead by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

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

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

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

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."



## REFERENCES

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

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

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

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

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

numbers ISO/IEC IS 10918-2, ITU-T T.83.

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

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

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

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

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

#### ARCHIVE LOCATIONS

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The "official" archive site for this software is <ftp.uu.net> (Internet address 192.48.96.9). The most recent released version can always be found there in directory <graphics/jpeg>. This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact [help@uunet.uu.net](mailto: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): <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](mailto:mail-server@rtfm.mit.edu) with body

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

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

## RELATED SOFTWARE

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS 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 PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

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

## FILE FORMAT WARS

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

of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

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

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

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

TO DO

=====

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](mailto:jpeg-info@uunet.uu.net).

# 1.231 cpio 2.13-4.e17\_7.0atomix1

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Version 3, 29 June 2007

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## 1.235 libxshmfence 1.2-1.el7

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# 1.236 nss-pem 1.0.3-7.el7

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# 1.237 perl-encode 2.51-7.el7

## 1.238 mesa 18.3.4-6.el7\_7

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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\' 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

## 1.239 pcre 8.32 17.el7

### 1.239.1 Available under license :

PCRE LICENCE

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The basic library functions are written in C and are freestanding. Also

included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

## THE BASIC LIBRARY FUNCTIONS

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

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## PCRE JUST-IN-TIME COMPILATION SUPPORT

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* /opt/cola/permits/1110676122_1606843997.72/0/spring-beans-5-0-8-release-sources-1-
jar/org/springframework/beans/factory/Aware.java
* /opt/cola/permits/1110676122_1606843997.72/0/spring-beans-5-0-8-release-sources-1-
jar/org/springframework/beans/factory/annotation/Qualifier.java
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\* /opt/cola/permits/1110676122\_1606843997.72/0/spring-beans-5-0-8-release-sources-1-jar/org/springframework/beans/TypeConverterDelegate.java  
\* /opt/cola/permits/1110676122\_1606843997.72/0/spring-beans-5-0-8-release-sources-1-jar/org/springframework/beans/factory/config/YamlProcessor.java  
\* /opt/cola/permits/1110676122\_1606843997.72/0/spring-beans-5-0-8-release-sources-1-jar/org/springframework/beans/factory/config/CustomScopeConfigurer.java  
\* /opt/cola/permits/1110676122\_1606843997.72/0/spring-beans-5-0-8-release-sources-1-jar/org/springframework/beans/factory/parsing/BeanComponentDefinition.java  
\* /opt/cola/permits/1110676122\_1606843997.72/0/spring-beans-5-0-8-release-sources-1-jar/org/springframework/beans/factory/support/StaticListableBeanFactory.java

## 1.244 libxcomposite 0.4.4-4.1.e17

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ResolverUtil.java

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`analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`,  
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java  
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## 1.248 asm 5.0.4

## 1.249 bcel 6.0

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## 1.252 perl 5.16.3-293.el7

### 1.252.1 Available under license :

```
use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#-----#
# Create test distribution
#-----#

{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
```

```

);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
    "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
    "META license URL is correct"
);

}

{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
    "META license URL is correct"
);

}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2

```

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

That's all there is to it!

---

abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build\_requires:

File::Temp: 0.15

Test::Harness: 3.16

Test::More: 0.49

generated\_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Module-Build

resources:

MailingList: <mailto:module-build@perl.org>

license: <http://dev.perl.org/licenses/>

repository: <http://github.com/dagolden/module-build/>

version: 3

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```

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Version 2, June 1991

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<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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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.
```

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```
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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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\*uganda.txt\* For Vim version 8.1. Last change: 2018 May 17

VIM REFERENCE MANUAL by Bram Moolenaar

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\*iccf\* \*ICCF\*

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.

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=====  
Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

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

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

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

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

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

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

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this

I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

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

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

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. 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:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

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

[Bram@iccf-holland.org](mailto: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:

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## 1.258 Im-sensors 3.4.0

## 8.20160601gitf9185e5.e17

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Here is a list of the main contributors to Im-sensors version 3.

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Original author of libsensors, sensors-detect, sensors and isadump.

\* Merlin Hughes

Original author of sensord.

\* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.

\* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

\* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

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## 1.260 libxcursor 1.1.15-1.el7.0atomix1

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## 1.261 conscript 1.0.0

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# 1.262 e2fsprogs 1.42.9 16.el7

## 1.262.1 Available under license :

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

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

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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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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 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)

Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes

-

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Gadi Oxman, August 1995

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```
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```

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```
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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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Theodore Ts'o  
23-June-2007

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```

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

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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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\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/common/TemplateParserContext.java  
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jar/org/springframework/expression/spel/ast/AstUtils.java

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jar/org/springframework/expression/spel/support/StandardTypeConverter.java

\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-

jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/ast/VariableReference.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/SpelMessage.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/ast/SpelNodeImpl.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/EvaluationContext.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/support/DataBindingPropertyAccessor.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/ast/Indexer.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/ast/Selection.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/support/SimpleEvaluationContext.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/ast/OperatorMatches.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
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\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/ast/TypeReference.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/ast/FormatHelper.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/CodeFlow.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/SpelEvaluationException.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/ExpressionState.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/support/StandardEvaluationContext.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/common/TemplateAwareExpressionParser.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-  
jar/org/springframework/expression/spel/support/DataBindingMethodResolver.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-

jar/org/springframework/expression/spel/ast/TypeCode.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/ast/MethodReference.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/standard/Tokenizer.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/ast/OpModulus.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/ast/OpPlus.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/ast/FunctionReference.java  
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\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/ast/OperatorPower.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/ast/OperatorNot.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/ast/OpGT.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/ast/OpGE.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/CompilablePropertyAccessor.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/SpelCompilerMode.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/ast/RealLiteral.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/standard/SpelExpressionParser.java

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\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/ast/OpLT.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/ast/StringLiteral.java  
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\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/TypedValue.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/SpelNode.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/TypeComparator.java  
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\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/ParserContext.java

\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/CompiledExpression.java

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\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/Expression.java

\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java

\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/ast/OpDec.java

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\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/common/ExpressionUtils.java

\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/support/ReflectionHelper.java

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\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/TypeConverter.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/OperatorOverloader.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/ExpressionException.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/ast/OpDivide.java  
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\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/AccessException.java  
\* /opt/cola/permits/1110675919\_1606843246.37/0/spring-expression-5-0-8-release-sources-1-jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java

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## 1.267 elfutils 0.176 2.el7



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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.268 glibc 2.17-316.el7

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## 1.269 guava 20.0

## 1.270 alsa 1.1.8 1.e17

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The snowball stemmers in  
analysis/common/src/java/net/sf/snowball  
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<http://snowball.tartarus.org/>

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The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali 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,  
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt  
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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

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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/es/SpanishLightStemmer.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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\* `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, 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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```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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-->

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

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

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

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

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
```

```

    <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
    <xsl:text>Copyright (C) </xsl:text>
    <xsl:call-template name="copyright.years">
      <xsl:with-param name="years" select="year"/>
    </xsl:call-template>
    <xsl:text> </xsl:text>
    <xsl:value-of select="holder"/>
      <xsl:value-of select="$isc.copyright.breakline"/>
    <xsl:text>&#10;</xsl:text>
    </xsl:for-each>
    <xsl:value-of select="$isc.copyright.text"/>
      </xsl:with-param>
    </xsl:call-template>
  </xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:

- mode: sgml

- End:

-->

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## 1.277 libxft 2.3.2-2.el7

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## 1.278 perl-text-parsewords 3.29-4.e17

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From: "Alexandr Ciornii via RT" <bug-Text-ParseWords@rt.cpan.org>

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In-Reply-To: <rt-4.0.18-4704-1384789048-1647.90483-6-0@rt.cpan.org>

References: <RT-Ticket-90483@rt.cpan.org>

<rt-4.0.18-4704-1384789048-1647.90483-6-0@rt.cpan.org>

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To: mmaslano@redhat.com

MIME-Version: 1.0

Content-Transfer-Encoding: 8bit

Content-Type: text/plain; charset="utf-8"

X-RT-Original-Encoding: utf-8  
Date: Mon, 18 Nov 2013 11:06:08 -0500  
X-RedHat-Spam-Score: -1.9 (BAYES\_00,SPF\_PASS,URIBL\_BLOCKED)  
X-Scanned-By: MIMEDefang 2.68 on 10.5.11.23  
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## 1.279 libxau 1.0.8-2.1.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.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the



software.

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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## 1.284 perl 1.04 294.e17\_6

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

```
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the Free Software Foundation; either version 1, or (at your option)  
any later version.
```

```
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```

```
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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) 19xx 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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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!

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#!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) = $copyright_msg =~ /\.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$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;
}

```

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---

abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build\_requires:

File::Temp: 0.15

Test::Harness: 3.16

Test::More: 0.49

generated\_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Module-Build

resources:

MailingList: <mailto:module-build@perl.org>

license: <http://dev.perl.org/licenses/>

repository: <http://github.com/dagolden/module-build/>

version: 3

-----  
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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 1, February 1989

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<one line to give the program's name and a brief idea of what it does.>

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```
Gnomovision version 69, Copyright (C) 19xx 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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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

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## 1.285 bouncy-castle 1.58

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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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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.

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<one line to give the library's name and a brief idea of what it does.>

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

That's all there is to it!

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<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
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This is a test manual, trivially and explicitly in the public domain.

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<p>In the appendix, we print the indices and references.
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<a name="index-another-fun"></a>

<a name="index-Copying-appendix"></a>

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<a href="index_special_region_no_insertcopying_fot.html#Public-domain-reference">Public domain reference</a>
for reference on the licence.
</p>
<p><a href="index.html#Titlepage-anchor">Titlepage anchor</a> for the titlepage.
<a href="index_special_region_no_insertcopying_fot.html#Titlepage-footnote-anchor">Titlepage footnote

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This is a test manual, trivially and explicitly in the public
domain.

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(help)"> ? </a></td>
</tr></table>
<a name="Copying-and-indices-1"></a>
<h1 class="appendix">Appendix A Copying and indices</h1>

<p>In the appendix, we print the indices and references.
</p>
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<a name="index-Copying-appendix"></a>

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<a href="index_special_region_no_region_fot.html#Titlepage-footnote-anchor">Titlepage footnote anchor</a> for
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href="http://www.gnu.org/software/texinfo/"><em>texi2any</em></a>.
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This is a test manual, trivially and explicitly in the public domain.

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<p>In the appendix, we print the indices and references.
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<a name="index-Copying-appendix"></a>

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This document was generated on <em>a sunny day</em> using <a href="http://www.gnu.org/software/texinfo/"><em>texi2any</em></a>.
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This is a test manual, trivially and explicitly in the public
domain.

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This is a test manual, trivially and explicitly in the public

domain.

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</div>
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<p>In the appendix, we print the indices and references.
</p>
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<a href="index.html#Public-domain-reference">Public domain reference</a> for reference on the licence.
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<a href="index.html#Titlepage-footnote-anchor">Titlepage footnote anchor</a> for reference on the titlepage.
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Version 3, 29 June 2007

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```

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```
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under certain conditions; type `show c' for details.
```

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```
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<!--
```

This is a test manual, trivially and explicitly in the public domain.

```
-->
<!-- Created by texinfo, http://www.gnu.org/software/texinfo/ -->
<!-- This file redirects to the location of a node or anchor -->
<head>
<title>Top: Copying information</title>

<meta name="description" content="Top: Copying information">
<meta name="keywords" content="Top: Copying information">
<meta name="resource-type" content="document">
<meta name="distribution" content="global">
<meta name="Generator" content="texi2any">
```

```

<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
<!--
a.summary-letter {text-decoration: none}
blockquote.smallquotation {font-size: smaller}
div.display {margin-left: 3.2em}
div.example {margin-left: 3.2em}
div.indentedblock {margin-left: 3.2em}
div.lisp {margin-left: 3.2em}
div.smalldisplay {margin-left: 3.2em}
div.smallexample {margin-left: 3.2em}
div.smallindentedblock {margin-left: 3.2em; font-size: smaller}
div.smalllisp {margin-left: 3.2em}
kbd {font-style:oblique}
pre.display {font-family: inherit}
pre.format {font-family: inherit}
pre.menu-comment {font-family: serif}
pre.menu-preformatted {font-family: serif}
pre.smalldisplay {font-family: inherit; font-size: smaller}
pre.smallexample {font-size: smaller}
pre.smallformat {font-family: inherit; font-size: smaller}
pre.smalllisp {font-size: smaller}
span.nocodebreak {white-space:nowrap}
span.nolinebreak {white-space:nowrap}
span.roman {font-family:serif; font-weight:normal}
span.sansserif {font-family:sans-serif; font-weight:normal}
ul.no-bullet {list-style: none}
-->
</style>

<meta http-equiv="Refresh" content="0; url=Chapter.html#Copying-information">

</head>

<body lang="en" bgcolor="#FFFFFF" text="#000000" link="#0000FF" vlink="#800080" alink="#FF0000">

<p>The node you are looking for is at <a href="Chapter.html#Copying-information">Copying
information</a>.</p>
</body>
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```
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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<!--
```

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```
-->
<!-- Created by texinfo, http://www.gnu.org/software/texinfo/ -->
<head>
<title>Top: Copying and indices</title>

<meta name="description" content="Top: Copying and indices">
<meta name="keywords" content="Top: Copying and indices">
<meta name="resource-type" content="document">
<meta name="distribution" content="global">
<meta name="Generator" content="texi2any">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<link href="index.html#Top" rel="start" title="Top">
<link href="#SEC_Contents" rel="contents" title="Table of Contents">
<link href="index.html#Top" rel="up" title="Top">
<link href="index.html#Top" rel="previous" title="Top">
<style type="text/css">
<!--
a.summary-letter {text-decoration: none}
blockquote.smallquotation {font-size: smaller}
div.display {margin-left: 3.2em}
div.example {margin-left: 3.2em}
div.indentedblock {margin-left: 3.2em}
div.lisp {margin-left: 3.2em}
div.smalldisplay {margin-left: 3.2em}
```

```

div.smallexample {margin-left: 3.2em}
div.smallindentedblock {margin-left: 3.2em; font-size: smaller}
div.smalllisp {margin-left: 3.2em}
kbd {font-style:oblique}
pre.display {font-family: inherit}
pre.format {font-family: inherit}
pre.menu-comment {font-family: serif}
pre.menu-preformatted {font-family: serif}
pre.smalldisplay {font-family: inherit; font-size: smaller}
pre.smallexample {font-size: smaller}
pre.smallformat {font-family: inherit; font-size: smaller}
pre.smalllisp {font-size: smaller}
span.nocodebreak {white-space:nowrap}
span.nolinebreak {white-space:nowrap}
span.roman {font-family:serif; font-weight:normal}
span.sansserif {font-family:sans-serif; font-weight:normal}
ul.no-bullet {list-style: none}
-->
</style>

```

```
</head>
```

```
<body lang="en" bgcolor="#FFFFFF" text="#000000" link="#0000FF" vlink="#800080" alink="#FF0000">
```

```
<a name="Copying-and-indices"></a>
```

```
<div class="header">
```

```
<p>
```

```
Previous: <a href="index.html#Top" accesskey="p" rel="previous">Top</a>, Up: <a href="index.html#Top"
accesskey="u" rel="up">Top</a> &nbsp; ; [<a href="#SEC_Contents" title="Table of contents"
rel="contents">Contents</a>]</p>
```

```
</div>
```

```
<a name="Copying-and-indices-1"></a>
```

```
<h2 class="appendix">Appendix A Copying and indices</h2>
```

```
<p>In the appendix, we print the indices and references.
```

```
</p>
```

```
<a name="index-another-fun"></a>
```

```
<a name="index-Copying-appendix"></a>
```

```
<p><a href="index.html#Copying-information">Copying information</a> for the copying information.
```

```
<a href="index.html#Public-domain-reference">Public domain reference</a> for reference on the licence.
```

```
</p>
```

```
<p><a href="index.html#Titlepage-anchor">Titlepage anchor</a> for the titlepage.
```

```
<a href="index.html#Titlepage-footnote-anchor">Titlepage footnote anchor</a> for reference on the titlepage.
```

```
</p>
```

```
<table><tr><th valign="top">Jump to: &nbsp; ; </th><td><a class="summary-letter" href="#Copying-and-
```

```

indices_cp_letter-C"><b>C</b></a>
 
<a class="summary-letter" href="#Copying-and-indices_cp_letter-P"><b>P</b></a>
 
<a class="summary-letter" href="#Copying-and-indices_cp_letter-T"><b>T</b></a>
 
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<tr><td colspan="4"> <hr></td></tr>
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<tr><td></td><td valign="top"><a href="#index-Copying-appendix">Copying
appendix</a>:</td><td>&nbsp;</td><td valign="top"><a href="#Copying-and-indices">Copying and
indices</a></td></tr>
<tr><td></td><td valign="top"><a href="index.html#index-copying-Copying-this-document">Copying this
document</a>:</td><td>&nbsp;</td><td valign="top"><a href="index.html#Top">Top</a></td></tr>
<tr><td colspan="4"> <hr></td></tr>
<tr><th><a name="Copying-and-indices_cp_letter-P">P</a></th><td></td><td></td></tr>
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domain</a>:</td><td>&nbsp;</td><td valign="top"><a href="index.html#Top">Top</a></td></tr>
<tr><td colspan="4"> <hr></td></tr>
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<a class="summary-letter" href="#Copying-and-indices_cp_letter-P"><b>P</b></a>
 
<a class="summary-letter" href="#Copying-and-indices_cp_letter-T"><b>T</b></a>
 
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<a class="summary-letter" href="#Copying-and-indices_fn_letter-F"><b>F</b></a>
 
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<tr><td colspan="4"> <hr></td></tr>
<tr><th><a name="Copying-and-indices_fn_letter-A">A</a></th><td></td><td></td></tr>
<tr><td></td><td valign="top"><a href="#index-another-fun"><code>another
fun</code></a>:</td><td>&nbsp;</td><td valign="top"><a href="#Copying-and-indices">Copying and

```

```

indices</a></td></tr>
<tr><td colspan="4"> <hr></td></tr>
<tr><th><a name="Copying-and-indices_fn_letter-F">F</a></th><td></td><td></td></tr>
<tr><td></td><td valign="top"><a href="index.html#index-findex-entry"><code>findex
entry</code></a>:</td><td>&nbsp;</td><td valign="top"><a href="index.html#Top">Top</a></td></tr>
<tr><td></td><td valign="top"><a href="index.html#index-
fun"><code>fun</code></a>:</td><td>&nbsp;</td><td valign="top"><a
href="index.html#Top">Top</a></td></tr>
<tr><td colspan="4"> <hr></td></tr>
</table>
<table><tr><th valign="top">Jump to: &nbsp;</th><td><a class="summary-letter" href="#Copying-and-
indices_fn_letter-A"><b>A</b></a>
&nbsp;</td></tr></table>
<a class="summary-letter" href="#Copying-and-indices_fn_letter-F"><b>F</b></a>
&nbsp;</td></tr></table>

```

```

<a name="SEC_Contents"></a>
<h2 class="contents-heading">Table of Contents</h2>

```

```

<div class="contents">

```

```

<ul class="no-bullet">
<li><a name="toc-Chapter" href="index.html#Chapter">1 Chapter</a></li>
<li><a name="toc-Copying-and-indices-1" href="#Copying-and-indices">Appendix A Copying and
indices</a></li>
</ul>
</div>

```

```

<hr>
<div class="header">
<p>
Previous: <a href="index.html#Top" accesskey="p" rel="previous">Top</a>, Up: <a href="index.html#Top"
accesskey="u" rel="up">Top</a> &nbsp;<a href="#SEC_Contents" title="Table of contents"
rel="contents">Contents</a>]</p>
</div>

```

```

</body>
</html>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<!--

```

This is a test manual, trivially and explicitly in the public domain.

```

-->
<!-- Created by texinfo, http://www.gnu.org/software/texinfo/ -->
<head>
<title>Top: Appendix A Copying and indices</title>

<meta name="description" content="Top: Appendix A Copying and indices">
<meta name="keywords" content="Top: Appendix A Copying and indices">
<meta name="resource-type" content="document">
<meta name="distribution" content="global">
<meta name="Generator" content="texi2any">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
<!--
a.summary-letter {text-decoration: none}
blockquote.smallquotation {font-size: smaller}
div.display {margin-left: 3.2em}
div.example {margin-left: 3.2em}
div.indentedblock {margin-left: 3.2em}
div.lisp {margin-left: 3.2em}
div.smalldisplay {margin-left: 3.2em}
div.smallexample {margin-left: 3.2em}
div.smallindentedblock {margin-left: 3.2em; font-size: smaller}
div.smalllisp {margin-left: 3.2em}
kbd {font-style:oblique}
pre.display {font-family: inherit}
pre.format {font-family: inherit}
pre.menu-comment {font-family: serif}
pre.menu-preformatted {font-family: serif}
pre.smalldisplay {font-family: inherit; font-size: smaller}
pre.smallexample {font-size: smaller}
pre.smallformat {font-family: inherit; font-size: smaller}
pre.smalllisp {font-size: smaller}
span.nocodebreak {white-space:nowrap}
span.nolinebreak {white-space:nowrap}
span.roman {font-family:serif; font-weight:normal}
span.sansserif {font-family:sans-serif; font-weight:normal}
ul.no-bullet {list-style: none}
-->
</style>

</head>

<body lang="en" bgcolor="#FFFFFF" text="#000000" link="#0000FF" vlink="#800080" alink="#FF0000">
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<tr><td valign="middle" align="left">[<a href="Chapter.html#Chapter" title="Beginning of this chapter or previous

```





```

appendix</a></td><td>&nbsp;</td><td valign="top"><a href="#Copying-and-indices">Appendix A Copying and
indices</a></td></tr>
<tr><td></td><td valign="top"><a href="index.html#index-copying-Copying-this-document">Copying this
document</a></td><td>&nbsp;</td><td valign="top"><a href="index.html#Top">Top</a></td></tr>
<tr><td colspan="4"> <hr></td></tr>
<tr><th><a name="Copying-and-indices-1_cp_letter-P">P</a></th><td></td><td></td></tr>
<tr><td></td><td valign="top"><a href="index_special_region_no_region_fot.html#index-copying-Public-
domain">Public domain</a></td><td>&nbsp;</td><td valign="top"><a
href="index.html#Top">Top</a></td></tr>
<tr><td colspan="4"> <hr></td></tr>
<tr><th><a name="Copying-and-indices-1_cp_letter-T">T</a></th><td></td><td></td></tr>
<tr><td></td><td valign="top"><a href="index_special_region_no_region_fot.html#index-titlepage-Titlepage-
footnote">Titlepage footnote</a></td><td>&nbsp;</td><td valign="top"><a
href="index.html#Top">Top</a></td></tr>
<tr><td></td><td valign="top"><a href="index.html#index-titlepage-Titlepage-index">Titlepage
index</a></td><td>&nbsp;</td><td valign="top"><a href="index.html#Top">Top</a></td></tr>
<tr><td colspan="4"> <hr></td></tr>
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<table><tr><th valign="top">Jump to: &nbsp;</th><td><a class="summary-letter" href="#Copying-and-indices-
1_cp_letter-C"><b>C</b></a>
&nbsp;</td>
<a class="summary-letter" href="#Copying-and-indices-1_cp_letter-P"><b>P</b></a>
&nbsp;</td>
<a class="summary-letter" href="#Copying-and-indices-1_cp_letter-T"><b>T</b></a>
&nbsp;</td>
</tr></table>
<table><tr><th valign="top">Jump to: &nbsp;</th><td><a class="summary-letter" href="#Copying-and-indices-
1_fn_letter-A"><b>A</b></a>
&nbsp;</td>
<a class="summary-letter" href="#Copying-and-indices-1_fn_letter-F"><b>F</b></a>
&nbsp;</td>
</tr></table>
<table class="index-fn" border="0">
<tr><td></td><th align="left">Index Entry</th><td>&nbsp;</td><th align="left"> Section</th></tr>
<tr><td colspan="4"> <hr></td></tr>
<tr><th><a name="Copying-and-indices-1_fn_letter-A">A</a></th><td></td><td></td></tr>
<tr><td></td><td valign="top"><a href="#index-another-fun"><code>another
fun</code></a></td><td>&nbsp;</td><td valign="top"><a href="#Copying-and-indices">Appendix A Copying
and indices</a></td></tr>
<tr><td colspan="4"> <hr></td></tr>
<tr><th><a name="Copying-and-indices-1_fn_letter-F">F</a></th><td></td><td></td></tr>
<tr><td></td><td valign="top"><a href="Chapter.html#index-findex-entry"><code>findex
entry</code></a></td><td>&nbsp;</td><td valign="top"><a href="Chapter.html#Chapter">1
Chapter</a></td></tr>
<tr><td></td><td valign="top"><a href="Chapter.html#index-
fun"><code>fun</code></a></td><td>&nbsp;</td><td valign="top"><a href="Chapter.html#Chapter">1
Chapter</a></td></tr>
<tr><td colspan="4"> <hr></td></tr>

```

```

</table>
<table><tr><th valign="top">Jump to: &nbsp;  </th><td><a class="summary-letter" href="#Copying-and-indices-1_fn_letter-A"><b>A</b></a>
&nbsp;  <a class="summary-letter" href="#Copying-and-indices-1_fn_letter-F"><b>F</b></a>
&nbsp;  </td></tr></table>

<hr>
<table class="header" cellpadding="1" cellspacing="1" border="0">
<tr><td valign="middle" align="left"><a href="Chapter.html#Chapter" title="Beginning of this chapter or previous chapter"> &lt;&lt;</a></td>
<td valign="middle" align="left">[ &gt;&gt;&gt; ]</td>
<td valign="middle" align="left"> &nbsp;  </td>
<td valign="middle" align="left"> &nbsp;  </td>
<td valign="middle" align="left"> &nbsp;  </td>
<td valign="middle" align="left"> &nbsp;  </td>
<td valign="middle" align="left"><a href="index.html#Top" title="Cover (top) of document">Top</a></td>
<td valign="middle" align="left"><a href="index_special_region_no_region_toc.html#SEC_Contents" title="Table of contents">Contents</a></td>
<td valign="middle" align="left"><a href="index.html#Top" title="Index">Index</a></td>
<td valign="middle" align="left"><a href="index_special_region_no_region_abt.html#SEC_About (help)"> ? </a></td>
</tr></table>
<p><font size="-1">
This document was generated on <em>a sunny day</em> using <a href="http://www.gnu.org/software/texinfo/"><em>texi2any</em></a>.
</font></p>

</body>
</html>
use vars qw(%result_texis %result_texts %result_trees %result_errors
%result_indices %result_sectioning %result_nodes %result_menus
%result_floats %result_converted %result_converted_errors
%result_elements %result_directions_text);

use utf8;

$result_trees{'copying_not_closed'} = {
'contents' => [
{
'cmdname' => 'copying',
'contents' => [
{
'extra' => {
'command' => {}
}
}
}
]
}

```

```

    },
    'parent' => {},
    'text' => '
',
    'type' => 'empty_line_after_command'
  },
  {
    'parent' => {},
    'text' => '
',
    'type' => 'empty_line'
  },
  {
    'contents' => [
      {
        'parent' => {},
        'text' => 'This is a copyright notice
'
      }
    ],
    'parent' => {},
    'type' => 'paragraph'
  }
],
'extra' => {
  'spaces_after_command' => {}
},
'line_nr' => {
  'file_name' => '',
  'line_nr' => 1,
  'macro' => ''
},
'parent' => {}
}
],
'type' => 'text_root'
};
$result_trees{'copying_not_closed'}{'contents'}[0]{'contents'}[0]{'extra'}{'command'} =
$result_trees{'copying_not_closed'}{'contents'}[0];
$result_trees{'copying_not_closed'}{'contents'}[0]{'contents'}[0]{'parent'} =
$result_trees{'copying_not_closed'}{'contents'}[0];
$result_trees{'copying_not_closed'}{'contents'}[0]{'contents'}[1]{'parent'} =
$result_trees{'copying_not_closed'}{'contents'}[0];
$result_trees{'copying_not_closed'}{'contents'}[0]{'contents'}[2]{'contents'}[0]{'parent'} =
$result_trees{'copying_not_closed'}{'contents'}[0]{'contents'}[2];
$result_trees{'copying_not_closed'}{'contents'}[0]{'contents'}[2]{'parent'} =
$result_trees{'copying_not_closed'}{'contents'}[0];
$result_trees{'copying_not_closed'}{'contents'}[0]{'extra'}{'spaces_after_command'} =

```

```

$result_trees{'copying_not_closed'}{'contents'}[0]{'contents'}[0];
$result_trees{'copying_not_closed'}{'contents'}[0]{'parent'} = $result_trees{'copying_not_closed'};

$result_texis{'copying_not_closed'} = '@copying

This is a copyright notice
';

$result_texts{'copying_not_closed'} = "";

$result_errors{'copying_not_closed'} = [
{
'error_line' => ':3: no matching `@end copying\'
,
'file_name' => "",
'line_nr' => 3,
'macro' => "",
'text' => 'no matching `@end copying\'',
'type' => 'error'
}
];

1;
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<!--
Copyright notice, public domain

Public domain is not really a licence, as it means than
the author abandon his copyright.
-->
<!-- Created by texinfo, http://www.gnu.org/software/texinfo/ -->
<!-- This file redirects to the location of a node or anchor -->
<head>
<title>Top: caption copying footnote anchor</title>

<meta name="description" content="Top: caption copying footnote anchor">
<meta name="keywords" content="Top: caption copying footnote anchor">
<meta name="resource-type" content="document">
<meta name="distribution" content="global">
<meta name="Generator" content="texi2any">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
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a.summary-letter {text-decoration: none}

```

```

blockquote.smallquotation {font-size: smaller}
div.display {margin-left: 3.2em}
div.example {margin-left: 3.2em}
div.indentedblock {margin-left: 3.2em}
div.lisp {margin-left: 3.2em}
div.smalldisplay {margin-left: 3.2em}
div.smallexample {margin-left: 3.2em}
div.smallindentedblock {margin-left: 3.2em; font-size: smaller}
div.smalllisp {margin-left: 3.2em}
kbd {font-style:oblique}
pre.display {font-family: inherit}
pre.format {font-family: inherit}
pre.menu-comment {font-family: serif}
pre.menu-preformatted {font-family: serif}
pre.smalldisplay {font-family: inherit; font-size: smaller}
pre.smallexample {font-size: smaller}
pre.smallformat {font-family: inherit; font-size: smaller}
pre.smalllisp {font-size: smaller}
span.nocodebreak {white-space:nowrap}
span.nolinebreak {white-space:nowrap}
span.roman {font-family:serif; font-weight:normal}
span.sansserif {font-family:sans-serif; font-weight:normal}
ul.no-bullet {list-style: none}

```

```
-->
```

```
</style>
```

```
<meta http-equiv="Refresh" content="0; url=float_copying_fot.html#caption-copying-footnote-anchor">
```

```
</head>
```

```
<body lang="en" bgcolor="#FFFFFF" text="#000000" link="#0000FF" vlink="#800080" alink="#FF0000">
```

```
<p>The node you are looking for is at <a href="float_copying_fot.html#caption-copying-footnote-anchor">caption
copying footnote anchor</a>.</p>
```

```
</body>
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
```

```
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html>
```

```
<!--
```

```
This is a test manual, trivially and explicitly in the public
domain.
```

```
-->
```

```
<!-- Created by texinfo, http://www.gnu.org/software/texinfo/ -->
```

```
<head>
```

```
<title>Top: Appendix A Copying and indices</title>
```

```

<meta name="description" content="Top: Appendix A Copying and indices">
<meta name="keywords" content="Top: Appendix A Copying and indices">
<meta name="resource-type" content="document">
<meta name="distribution" content="global">
<meta name="Generator" content="texi2any">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
<!--
a.summary-letter {text-decoration: none}
blockquote.smallquotation {font-size: smaller}
div.display {margin-left: 3.2em}
div.example {margin-left: 3.2em}
div.indentedblock {margin-left: 3.2em}
div.lisp {margin-left: 3.2em}
div.smalldisplay {margin-left: 3.2em}
div.smallexample {margin-left: 3.2em}
div.smallindentedblock {margin-left: 3.2em; font-size: smaller}
div.smalllisp {margin-left: 3.2em}
kbd {font-style:oblique}
pre.display {font-family: inherit}
pre.format {font-family: inherit}
pre.menu-comment {font-family: serif}
pre.menu-preformatted {font-family: serif}
pre.smalldisplay {font-family: inherit; font-size: smaller}
pre.smallexample {font-size: smaller}
pre.smallformat {font-family: inherit; font-size: smaller}
pre.smalllisp {font-size: smaller}
span.nocodebreak {white-space:nowrap}
span.nolinebreak {white-space:nowrap}
span.roman {font-family:serif; font-weight:normal}
span.sansserif {font-family:sans-serif; font-weight:normal}
ul.no-bullet {list-style: none}
-->
</style>

</head>

<body lang="en" bgcolor="#FFFFFF" text="#000000" link="#0000FF" vlink="#800080" alink="#FF0000">
<a name="Copying-and-indices"></a>
<table class="header" cellpadding="1" cellspacing="1" border="0">
<tr><td valign="middle" align="left"><a href="Chapter.html#Chapter" title="Beginning of this chapter or previous
chapter"> &lt;&lt; </a></td>
<td valign="middle" align="left"><a href="Chapter.html#Chapter" title="Previous section in reading order"> &lt;
</a></td>
<td valign="middle" align="left"><a href="index.html#Top" title="Up section"> Up </a></td>
<td valign="middle" align="left">[ &gt; ]</td>
<td valign="middle" align="left">[ &gt;&gt; ]</td>

```

```

<td valign="middle" align="left"> &nbsp; </td>
<td valign="middle" align="left"> &nbsp; </td>
<td valign="middle" align="left"> &nbsp; </td>
<td valign="middle" align="left"> &nbsp; </td>
<td valign="middle" align="left">[<a href="index.html#Top" title="Cover (top) of document">Top</a>]</td>
<td valign="middle" align="left">[<a href="index_special_region_toc.html#SEC_Contents" title="Table of
contents">Contents</a>]</td>
<td valign="middle" align="left">[<a href="index.html#Top" title="Index">Index</a>]</td>
<td valign="middle" align="left">[<a href="index_special_region_abt.html#SEC_About" title="About (help)"> ?
</a>]</td>
</tr></table>
<a name="Copying-and-indices-1"></a>
<h1 class="appendix">Appendix A Copying and indices</h1>

```

<p>In the appendix, we print the indices and references.

</p>

<a name="index-another-fun"></a>

<a name="index-Copying-appendix"></a>

<p><a href="index.html#Copying-information">Copying information</a> for the copying information.

<a href="index\_special\_region\_fot.html#Public-domain-reference">Public domain reference</a> for reference on the licence.

</p>

<p><a href="index.html#Titlepage-anchor">Titlepage anchor</a> for the titlepage.

<a href="index\_special\_region\_fot.html#Titlepage-footnote-anchor">Titlepage footnote anchor</a> for reference on the titlepage.

</p>

<a name="index-copying-Copying-this-document"></a>

<a name="Copying-information"></a>

<p>This is a test manual, trivially and explicitly in the public domain<a name="DOCF1\_4" href="index\_special\_region\_fot.html#FOOT1\_4"><sup>4</sup></a>.

</p>

```

<table><tr><th valign="top">Jump to: &nbsp; </th><td><a class="summary-letter" href="#Copying-and-indices-1_cp_letter-C"><b>C</b></a>

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&nbsp;

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<a class="summary-letter" href="#Copying-and-indices-1_cp_letter-P"><b>P</b></a>

```

&nbsp;

```

<a class="summary-letter" href="#Copying-and-indices-1_cp_letter-T"><b>T</b></a>

```

&nbsp;

```

</td></tr></table>

```

```

<table class="index-cp" border="0">

```

```

<tr><td></td><th align="left">Index Entry</th><td>&nbsp; </td><th align="left"> Section</th></tr>

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<tr><td colspan="4"> <hr></td></tr>

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<tr><th><a name="Copying-and-indices-1_cp_letter-C">C</a></th><td></td><td></td></tr>

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```

<tr><td></td><td valign="top"><a href="#index-Copying-appendix">Copying

```

```

appendix</a></td><td>&nbsp; </td><td valign="top"><a href="#Copying-and-indices">Appendix A Copying and

```

```

indices</a></td></tr>
<tr><td></td><td valign="top"><a href="index.html#index-copying-Copying-this-document">Copying this
document</a></td><td>&nbsp;</td><td valign="top"><a href="index.html#Top">Top</a></td></tr>
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appendix</a></td><td>&nbsp;</td><td valign="top"><a href="#Copying-and-indices">Appendix A Copying and
indices</a></td></tr>
<tr><td></td><td valign="top"><a href="index.html#index-copying-Copying-this-document">Copying this
document</a></td><td>&nbsp;</td><td valign="top"><a href="index.html#Top">Top</a></td></tr>
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<tr><td></td><td valign="top"><a href="#index-another-fun"><code>another fun</code></a></td><td>&nbsp;</td><td valign="top"><a href="#Copying-and-indices">Appendix A Copying and indices</a></td></tr>
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<td valign="middle" align="left">[<a href="index_special_region_toc.html#SEC_Contents" title="Table of
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<td valign="middle" align="left">[<a href="index.html#Top" title="Index">Index</a>]</td>
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</tr></table>

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<p><font size="-1">
This document was generated on <em>a sunny day</em> using <a
href="http://www.gnu.org/software/texinfo/"><em>texi2any</em></a>.
</font></p>

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<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">

```

```

<html>
<!--
Copyright notice, public domain

```

Public domain is not really a licence, as it means than the author abandon his copyright.

```

-->
<!-- Created by texinfo, http://www.gnu.org/software/texinfo/ -->

```

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a.summary-letter {text-decoration: none}
blockquote.smallquotation {font-size: smaller}
div.display {margin-left: 3.2em}

```

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div.indentedblock {margin-left: 3.2em}
div.lisp {margin-left: 3.2em}
div.smalldisplay {margin-left: 3.2em}
div.smallexample {margin-left: 3.2em}
div.smallindentedblock {margin-left: 3.2em; font-size: smaller}
div.smalllisp {margin-left: 3.2em}
kbd {font-style:oblique}
pre.display {font-family: inherit}
pre.format {font-family: inherit}
pre.menu-comment {font-family: serif}
pre.menu-preformatted {font-family: serif}
pre.smalldisplay {font-family: inherit; font-size: smaller}
pre.smallexample {font-size: smaller}
pre.smallformat {font-family: inherit; font-size: smaller}
pre.smalllisp {font-size: smaller}
span.nocodebreak {white-space:nowrap}
span.nolinebreak {white-space:nowrap}
span.roman {font-family:serif; font-weight:normal}
span.sansserif {font-family:sans-serif; font-weight:normal}
ul.no-bullet {list-style: none}
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</head>
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<td valign="middle" align="left">[ &gt;&gt; ]</td>
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<td valign="middle" align="left"><a href="#Copying-and-floats" title="Index">Index</a></td>
<td valign="middle" align="left"><a href="float_copying_abt.html#SEC_About" title="About (help)"> ?
</a></td>
</tr></table>
<a name="Copying-and-floats-1"></a>

```

# Appendix A Copying and floats

In the appendix, we print the references and the copying once more and the list of coyright notices (listoffloats).

See the caption [public domain anchor](index.html#public-domain-anchor).

See the float [Copyright notice 1](index.html#public-domain).

[index-listofloats](#)

[public-domain](#)

Public domain is not really a licence, as it means than the author abandon his copyright.

[Copyright notice 1: The Public Domain notice](#)<sup>2</sup>

[public-domain-anchor](#) [index-copying-indexed-caption](#)

[index-copying-indexed-caption-function](#)

[public-domain](#)

Public domain is not really a licence, as it means than the author abandon his copyright.

[Copyright notice 1: The Public Domain notice](#)<sup>3</sup>

[public-domain-anchor](#) [index-copying-indexed-caption](#)

[index-copying-indexed-caption-function](#)

[listofloats](#)

### listofloats

[listofloats](#)

[Copyright notice 1](#) [The Public Domain notice](#)<sup>4</sup>

[printindex](#)

### printindex

Jump to: &nbsp;	<a href="#">#Copying-and-floats-</a>
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<td valign="middle" align="left"> &nbsp;</td>
<td valign="middle" align="left"><a href="index.html#Top" title="Cover (top) of document">Top</a></td>
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<td valign="middle" align="left"><a href="#Copying-and-floats" title="Index">Index</a></td>
<td valign="middle" align="left"><a href="float_copying_abt.html#SEC_About" title="About (help)"> ?
</a></td>
</tr></table>
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<p><font size="-1">
This document was generated on <em>a sunny day</em> using <a
href="http://www.gnu.org/software/texinfo/"><em>texi2any</em></a>.
</font></p>
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</body>
</html>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<!--
```

This is a test manual, trivially and explicitly in the public domain.

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-->
<!-- Created by texinfo, http://www.gnu.org/software/texinfo/ -->
<head>
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<title>Top: Appendix A Copying and indices</title>

<meta name="description" content="Top: Appendix A Copying and indices">

<meta name="keywords" content="Top: Appendix A Copying and indices">

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blockquote.smallquotation {font-size: smaller}

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div.example {margin-left: 3.2em}

div.indentedblock {margin-left: 3.2em}

div.lisp {margin-left: 3.2em}

div.smalldisplay {margin-left: 3.2em}

div.smallexample {margin-left: 3.2em}

div.smallindentedblock {margin-left: 3.2em; font-size: smaller}

div.smalllisp {margin-left: 3.2em}

kbd {font-style:oblique}

pre.display {font-family: inherit}

pre.format {font-family: inherit}

pre.menu-comment {font-family: serif}

pre.menu-preformatted {font-family: serif}

pre.smalldisplay {font-family: inherit; font-size: smaller}

pre.smallexample {font-size: smaller}

pre.smallformat {font-family: inherit; font-size: smaller}

pre.smalllisp {font-size: smaller}

span.nocodebreak {white-space:nowrap}

span.nolinebreak {white-space:nowrap}

span.roman {font-family:serif; font-weight:normal}

span.sansserif {font-family:sans-serif; font-weight:normal}

ul.no-bullet {list-style: none}

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<td valign="middle" align="left"><a href="index.html#Top" title="Up section"> Up </a></td>

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<td valign="middle" align="left">[ &gt; ]</td>
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<td valign="middle" align="left">[<a href="index_special_region_toc.html#SEC_Contents" title="Table of
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<td valign="middle" align="left">[<a href="Chapter.html#Chapter" title="Index">Index</a>]</td>
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</a>]</td>
</tr></table>
<a name="Copying-and-indices-1"></a>
<h1 class="appendix">Appendix A Copying and indices</h1>

```

```

<p>In the appendix, we print the indices and references.

```

```

</p>

```

```

<a name="index-another-fun"></a>

```

```

<a name="index-Copying-appendix"></a>

```

```

<p><a href="Chapter.html#Copying-information">Copying information</a> for the copying information.

```

```

<a href="index_special_region_fot.html#Public-domain-reference">Public domain reference</a> for reference on
the licence.

```

```

</p>

```

```

<p><a href="index.html#Titlepage-anchor">Titlepage anchor</a> for the titlepage.

```

```

<a href="index_special_region_fot.html#Titlepage-footnote-anchor">Titlepage footnote anchor</a> for reference
on the titlepage.

```

```

</p>

```

```

<a name="index-copying-Copying-this-document"></a>

```

```

<a name="Copying-information"></a>

```

```

<p>This is a test manual, trivially and explicitly in the public

```

```

domain<a name="DOCF1_2" href="index_special_region_fot.html#FOOT1_2"><sup>2</sup></a>.

```

```

</p>

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&nbsp; </td>

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# 1.288 perl-srpm-macros 1-8.el7

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```

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```
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at assemblers) written by James Hacker.
```

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

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## 1.296 plexus-utils 3.0.7

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---

## 1.300 Lucene-backward-codecs 7.7.2

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analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,  
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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java  
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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java  
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## 1.307 elasticsearch-cli 6.8.5

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

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/\* lib/font/fontfile/gunzip.c

written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

intended for inclusion in X11 public releases. \*/

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# 1.316 hdrhistogram 2.1.9

## 1.317 xorg-x11-font-utils 7.5-21.el7

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## 1.318 httpcomponents-client 4.5.6

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```
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```

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```
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program `Gnomovision' (a program to direct compilers to make passes
```

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<signature of Ty Coon>, 1 April 1989  
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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
```

```

* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

```

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Linus Torvalds

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ConferenceTV card

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Python was created in the early 1990s by Guido van Rossum at Stichting

Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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```
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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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```
commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date: Sun Dec 22 14:49:48 2013 +0000
```

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in

<<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html>> and  
<<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>>, it seems  
appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes  
are: update paths in sysdeps/mach/hurd/Implies and  
sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files,  
with the removal of syscalls that were in  
sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory  
by .c files there.

Tested x86\_64. The installed shared libraries are identical before  
and after the patch except for libc.so where the move of wait3.c  
(included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but  
the disassembly is unchanged.

- \* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
- \* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from  
sysdeps/unix/bsd/bsd4.4/syscalls.list.
- (fchflags): Likewise.
- (revoke): Likewise.
- (setlogin): Likewise.
- (sigaltstack): Likewise.
- (wait4): Likewise.
- (sigblock): Remove.
- (sigsetmask): Likewise.
- (wait3): Likewise.
- (waitpid): Likewise.
- \* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
- \* sysdeps/unix/sysv/linux/wait3.c: Update directory of included  
file.
- \* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
- \* sysdeps/unix/bsd/Makefile: ... here.
- \* sysdeps/unix/bsd/bsd4.4/Versions: Move to ...
- \* sysdeps/unix/bsd/Versions: ... here.
- \* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
- \* sysdeps/unix/bsd/bits/sockaddr.h: ... here.
- \* sysdeps/unix/bsd/bsd4.4/cmsg\_nxthdr.c: Move to ...
- \* sysdeps/unix/bsd/cmsg\_nxthdr.c: ... here.
- \* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
- \* sysdeps/unix/bsd/sigblock.c: ... here.
- \* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
- \* sysdeps/unix/bsd/sigsetmask.c: ... here.
- \* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
- \* sysdeps/unix/bsd/sigvec.c: ... here.
- \* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
- \* sysdeps/unix/bsd/tcdrain.c: ... here.

```

* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

```

```

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1fdf1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File name Caller Syscall name # args Strong name Weak names
-
-chflags - chflags 2 chflags
-fchflags - fchflags 2 fchflags
-revoke - revoke 1 revoke
-setlogin - setlogin 2 setlogin
-sigaltstack - sigaltstack 2 __sigaltstack sigaltstack
-wait4 - wait4 4 __wait4 wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c

```

```

similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
# File name Caller Syscall name # args Strong name Weak names

+chflags - chflags 2 chflags
+fchflags - fchflags 2 fchflags
flock - flock 2 __flock flock
getdents - getdirentries 4 __getdirentries getdirentries
getdtsz - getdtablesize 0 __getdtablesize getdtablesize
getpagesize - getpagesize 0 __getpagesize getpagesize
killpg - killpg 2 killpg
-sigblock - sigblock 1 __sigblock sigblock
+revoke - revoke 1 revoke
+setlogin - setlogin 2 setlogin
+sigaltstack - sigaltstack 2 __sigaltstack sigaltstack
sigpause - sigpause 1 __sigpause sigpause
-sigsetmask - sigsetmask 1 __sigsetmask sigsetmask
sigstack - sigstack 2 sigstack
sigvec - sigvec 3 __sigvec sigvec
-wait3 - wait3 3 __wait3 wait3
-waitpid - waitpid 3 __waitpid waitpid
+wait4 - wait4 4 __wait4 wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c

```

```
diff --git a/sysdeps/unix/bsd/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1,1 @@
-#include <sysdeps/unix/bsd/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>
```

# 1.331 curl 7.69.1-1.el7\_7.0atomix1

## 1.331.1 Available under license :

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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!

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### ## libcurl

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

### ## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

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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)  
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The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali 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,  
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt  
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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/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

The Stempel analyzer (stempel) includes BSD-licensed software developed by the Egothor project <http://egothor.sf.net/>, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

The Polish analyzer (stempel) comes with a default  
stopword list that is BSD-licensed created by the Carrot2 project. The file resides  
in `stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt`.  
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The SmartChineseAnalyzer source code (smartcn) was  
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WordBreakTestUnicode\_\*.java (under `modules/analysis/common/src/test/`)  
is derived from Unicode data such as the Unicode Character Database.  
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The Morfologik analyzer (morfologik) includes BSD-licensed software  
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=====  
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration  
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or

<http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz>

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 */
```

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```

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## 1.341 shared-mime-info 1.8 5.e17

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## 1.344 tomcat-embed-websocket 8.5.32

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<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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.
```

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'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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## 1.351 libsodium 1.0.18

### 1.351.1 Available under license :

```
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*  
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* Frank Denis <j at pureftpd dot org>  
*  
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*/
```

## 1.352 libjpeg 1.2.90-8.el7

### 1.352.1 Available under license :

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```
/*  
* transupp.c  
*  
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* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.  
* Modifications:
```



\* Copyright (C) 2010, D. R. Commander.  
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\*  
\* This file contains image transformation routines and other utility code  
\* used by the jpegtran sample application. These are NOT part of the core  
\* JPEG library. But we keep these routines separate from jpegtran.c to  
\* ease the task of maintaining jpegtran-like programs that have other user  
\* interfaces.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.c  
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/\*  
\* jcinit.c  
\*  
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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.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcinit.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* 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.  
\*/

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archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/simd/jsimd\_x86\_64.c

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/\*

\* jdmarker.c

\*

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\*

\* This file contains routines to decode JPEG datastream markers.

\* Most of the complexity arises from our desire to support input

\* suspension: if not all of the data for a marker is available,

\* we must exit back to the application. On resumption, we reprocess

\* the marker.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmarker.c

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/\*

\* jdinput.c

\*

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\*

\* 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, jdhuft.c, and jdphuff.c.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-

archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdinput.c  
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```
/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 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 provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegint.h
No license file was found, but licenses were detected in source scan.
```

```
/*
 * 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/simd/jsimd_arm.c
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.  
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 \*  
 \* 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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
 archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdct.h  
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```

;
; jcolsamp.inc - private declarations for color conversion & up/downsampling
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

```

```

; -----

```

```

; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
#define mmA mm0
#define mmB mm1
#define xmmA xmm0
#define xmmB xmm1
%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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/simd/jcolsamp.inc
```

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```
/*
```

```
* jdapistd.c
```

```
*
```

```
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```

```
* Copyright (C) 1994-1996, Thomas G. Lane.
```

```
* Modifications:
```

```
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```

```
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```

```
*
```

```
* This file contains application interface code for the decompression half
```

```
* of the JPEG library. These are the "standard" API routines that are
```

```
* used in the normal full-decompression case. They are not used by a
```

```
* transcoding-only application. Note that if an application links in
```

```
* jpeg_start_decompress, it will end up linking in the entire decompressor.
```

```
* We thus must separate this file from jdapimin.c to avoid linking the
```

```
* whole decompression library into a transcoder.
```

```
*/
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapistd.c  
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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransformer.java

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjutil.h

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJScalingFactor.java

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjutil.c

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java.in
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcstest.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/bmp.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/java/org/libjpegturbo/turbojpeg/TJCustomFilter.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/bmp.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:



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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
sys 0m0.010s
```

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib\* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

Windows

-----

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's

copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg\_stdio\_dest() and jpeg\_stdio\_src().

Mac

---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.\*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install\_name\_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

=====  
Using libjpeg-turbo in Your Own Programs  
=====

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un\*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include  
and  
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un\*x systems, you would still need to manipulate LD\_LIBRARY\_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass `-R /opt/libjpeg-turbo/{lib}` to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un\*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```

On OS X, simply add `/opt/libjpeg-turbo/lib/libjpeg.a` to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add `c:\libjpeg-turbo[64]\include` to the system or user INCLUDE environment variable and `c:\libjpeg-turbo[64]\lib` to the system or user LIB environment variable, and then link against either `jpeg.lib` (to use the DLL version of libjpeg-turbo) or `jpeg-static.lib` (to use the static version of libjpeg-turbo.)

```
=====
Colorspace Extensions
=====
```

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

```
JCS_EXT_RGB /* red/green/blue */
JCS_EXT_RGBX /* red/green/blue/x */
JCS_EXT_BGR /* blue/green/red */
JCS_EXT_BGRX /* blue/green/red/x */
JCS_EXT_XBGR /* x/blue/green/red */
JCS_EXT_XRGB /* x/red/green/blue */
JCS_EXT_RGBA /* red/green/blue/alpha */
JCS_EXT_BGRA /* blue/green/red/alpha */
JCS_EXT_ABGR /* alpha/blue/green/red */
```

```
JCS_EXT_ARGB /* alpha/red/green/blue */
```

Setting `cinfo.in_color_space` (compression) or `cinfo.out_color_space` (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspace 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:

```
#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" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH\_MEM\_SRCDEST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg\_mem\_src() and jpeg\_mem\_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un\*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un\*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg\_mem\_src() or jpeg\_mem\_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg\_mem\_src() or jpeg\_mem\_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg\_mem\_src() or jpeg\_mem\_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

\*\*\*\*\*  
\*\* Mathematical Compatibility  
\*\*\*\*\*



For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.
  
- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.
  
- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.
  
- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

\*\*\*\*\*  
\*\* Performance Pitfalls  
\*\*\*\*\*

=====  
Restart Markers  
=====

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

=====

## Fast Integer Forward DCT at High Quality Levels

=====

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/README-turbo.txt

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

/\*

\* jcrepct.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains the compression preprocessing controller.

\* This controller manages the color conversion, downsampling,

\* and edge expansion steps.

\*

\* Most of the complexity here is associated with buffering input rows

\* as required by the downsampler. See the comments at the head of

\* jcsample.c for the downsampler's needs.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcrepct.c

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

/\*

\* wrtle.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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrrle.c  
No license file was found, but licenses were detected in source scan.

/\*

\* wrbmp.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains routines to write output images in Microsoft "BMP"

\* format (MS Windows 3.x and OS/2 1.x flavors).

\* Either 8-bit colormapped or 24-bit full-color format can be written.

\* No compression is supported.

\*

\* These routines may need modification for non-Unix environments or

\* specialized applications. As they stand, they assume output to

\* an ordinary stdio stream.

\*

\* This code contributed by James Arthur Boucher.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrbmp.c  
No license file was found, but licenses were detected in source scan.

/\*

\* djpeg.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* Modifications:

\* Copyright (C) 2010-2011, 2013, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains a command-line user interface for the JPEG decompressor.

\* It should work on any system with Unix- or MS-DOS-style command lines.

\*

- \* Two different command line styles are permitted, depending on the
- \* compile-time switch TWO\_FILE\_COMMANDLINE:
- \* djpeg [options] inputfile outputfile
- \* djpeg [options] [inputfile]
- \* In the second style, output is always to standard output, which you'd
- \* normally redirect to a file or pipe to some other program. Input is
- \* either from a named file or from standard input (typically redirected).
- \* The second style is convenient on Unix but is unhelpful on systems that
- \* don't support pipes. Also, you MUST use the first style if your system
- \* doesn't do binary I/O to stdin/stdout.
- \* To simplify script writing, the "-outfile" switch is provided. The syntax
- \* djpeg [options] -outfile outputfile inputfile
- \* works regardless of which command line style is used.
- \*/

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/djpeg.c

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

/\*

- \* 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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-

archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemmgr.c  
No license file was found, but licenses were detected in source scan.

```
/*  
* jctrans.c  
*  
* Copyright (C) 1995-1998, Thomas G. Lane.  
* Modified 2000-2009 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 library routines for transcoding compression,  
* that is, writing raw DCT coefficient arrays to an output JPEG file.  
* The routines in jcapimin.c will also be needed by a transcoder.  
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jctrans.c
```

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

; For conditions of distribution and use, see copyright notice in jsimdext.inc

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/simd/jsimdcpu.asm  
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/simd/jjimmxred.asm  
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/simd/jccolss2.asm  
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcclrss2-  
64.asm  
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgryss2-  
64.asm  
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmerss2-  
64.asm  
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfsseflt.asm  
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/simd/jcsammmx.asm  
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
```

archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfsseflt-64.asm

- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmermmx.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcsamss2.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcclrss2.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqnts2i.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdcolss2.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqnts2f.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/ji3dnflt.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jccolss2-64.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2flt.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jccolmmx.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdclrmmx.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmrgmmx.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqnts2i-64.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgryss2.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jf3dnflt.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-

1.2.90/simd/jdmerss2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmrgss2-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdsamss2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqtssse.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrass2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmrgss2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqtss2f-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jisseflt.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2red.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcclrmx.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqtmmx.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqt3dn.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdclrss2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrass2-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdclrss2-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdcolmmx.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrymmx.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2red-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrammx.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcsamss2-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdcolss2-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdsammmx.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2flt-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdsamss2-64.asm

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

/\*

\* jdmerge.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

\* Modifications:

\* Copyright (C) 2009, 2011, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains code for merged upsampling/color conversion.

\*

\* This file combines functions from jdsample.c and jdcolor.c;

\* read those files first to understand what's going on.

\*

\* When the chroma components are to be upsampled by simple replication

\* (ie, box filtering), we can save some work in color conversion by

\* calculating all the output pixels corresponding to a pair of chroma

\* samples at one time. In the conversion equations

\*  $R = Y + K1 * Cr$

\*  $G = Y + K2 * Cb + K3 * Cr$

\*  $B = Y + K4 * Cb$

\* only the Y term varies among the group of pixels corresponding to a pair

\* of chroma samples, so the rest of the terms can be calculated just once.

\* At typical sampling ratios, this eliminates half or three-quarters of the



\* multiplications needed for color conversion.  
\*  
\* This file currently provides implementations for the following cases:  
\* YCbCr => RGB color conversion only.  
\* Sampling ratios of 2h1v or 2h2v.  
\* No scaling needed at upsample time.  
\* Corner-aligned (non-CCIR601) sampling alignment.  
\* Other special cases could be added, but in most applications these are  
\* the only common cases. (For uncommon cases we fall back on the more  
\* general code in jdsample.c and jdcolor.c.)  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmerge.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jsimd\_none.c  
\*  
\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB  
\* Copyright 2009-2011 D. R. Commander  
\*  
\* Based on the x86 SIMD extension for IJG JPEG library,  
\* Copyright (C) 1999-2006, MIYASAKA Masaru.  
\* For conditions of distribution and use, see copyright notice in jsimdext.inc  
\*  
\* This file contains stubs for when there is no SIMD support available.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd\_none.c  
No license file was found, but licenses were detected in source scan.

/\*

\* cdjpeg.c  
\*  
\* Copyright (C) 1991-1997, Thomas G. Lane.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains common support routines used by the IJG application  
\* programs (cjpeg, djpeg, jpegtran).  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-

archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.c  
No license file was found, but licenses were detected in source scan.

```
/*
 * 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
 archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcoefct.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.
 * Modified 2003-2011 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
```

- \* doesn't do binary I/O to stdin/stdout.
- \* To simplify script writing, the "-outfile" switch is provided. The syntax
- \* cjpeg [options] -outfile outputfile inputfile
- \* works regardless of which command line style is used.
- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cjpeg.c  
 No license file was found, but licenses were detected in source scan.

/\*

- \* 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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdswitch.c  
 No license file was found, but licenses were detected in source scan.

/\*

- \* jquant2.c
- \*
- \* This file was part of the Independent JPEG Group's software:
- \* Copyright (C) 1991-1996, Thomas G. Lane.
- \* Modifications:
- \* Copyright (C) 2009, D. R. Commander.
- \* For conditions of distribution and use, see the accompanying README file.
- \*
- \* This file contains 2-pass color quantization (color mapping) routines.
- \* These routines provide selection of a custom color map for an image,
- \* followed by mapping of the image to that color map, with optional
- \* Floyd-Steinberg dithering.
- \* It is also possible to use just the second pass to map to an arbitrary

\* externally-given color map.  
\*  
\* Note: ordered dithering is not supported, since there isn't any fast  
\* way to compute intercolor distances; it's unclear that ordered dither's  
\* fundamental assumptions even hold with an irregularly spaced color map.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant2.c

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

/\*

\* jerror.c

\*

\* Copyright (C) 1991-1998, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains simple error-reporting and trace-message routines.

\* These are suitable for Unix-like systems and others where writing to

\* stderr is the right thing to do. Many applications will want to replace

\* some or all of these routines.

\*

\* If you define USE\_WINDOWS\_MESSAGEBOX in jconfig.h or in the makefile,

\* you get a Windows-specific hack to display error messages in a dialog box.

\* It ain't much, but it beats dropping error messages into the bit bucket,

\* which is what happens to output to stderr under most Windows C compilers.

\*

\* These routines are used by both the compression and decompression code.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.c

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

/\*

\* 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,  
\* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.  
\* 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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctint.c

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

/\*

\* transupp.h

\*

\* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains declarations for image transformation routines and  
\* other utility code used by the jpegtran sample application. These are  
\* NOT part of the core JPEG library. But we keep these routines separate  
\* from jpegtran.c to ease the task of maintaining jpegtran-like programs  
\* that have other user interfaces.  
\*  
\* NOTE: all the routines declared here have very specific requirements  
\* about when they are to be executed during the reading and writing of the  
\* source and destination files. See the comments in transupp.c, or see  
\* jpegtran.c for an example of correct usage.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.h  
No license file was found, but licenses were detected in source scan.

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](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 Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser,

Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]  
sachingarg@c10n.info

www.sachingarg.com | www.c10n.info | www.imagecompression.info

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/testimages/nightshot\_iso\_100.txt

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

/\*

\* jccoefct.c

\*

\* Copyright (C) 1994-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains the coefficient buffer controller for compression.

\* This controller is the top level of the JPEG compressor proper.

\* The coefficient buffer lies between forward-DCT and entropy encoding steps.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccoefct.c

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

/\*

\* jversion.h

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.

\* Modifications:

\* Copyright (C) 2010, 2012-2013, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains software version identification.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jversion.h

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

```
/*
 * jdmrgext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmrgext.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jsimd_i386.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * 32-bit x86 architecture.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * 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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctfst.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jcmaster.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* Modified 2003-2010 by Guido Vollbeding.

\* Modifications:

\* Copyright (C) 2010, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains master control logic for the JPEG compressor.

\* These routines are concerned with parameter validation, initial setup,

\* and inter-pass control (determining the number of passes and the work

\* to be done in each pass).

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmaster.c  
No license file was found, but licenses were detected in source scan.

## 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 `Unix` systems has been incremented by 1 to reflect this. You can disable this feature with a `configure/CMake` switch in order to retain strict API/ABI compatibility with the `libjpeg v6b` or `v7` API/ABI (or with previous versions of `libjpeg-turbo`.) See `README-turbo.txt` for more details.

[13] Added `ARM v7s` architecture to `libjpeg.a` and `libturbojpeg.a` in the official `libjpeg-turbo` binary package for `OS X`, so that those libraries can be used to build applications that leverage the faster CPUs in the `iPhone 5` and `iPad 4`.

### 1.2.1

=====

[1] Creating or decoding a `JPEG` file that uses the `RGB` colorspace should now properly work when the input or output colorspace is one of the `libjpeg-turbo` colorspace extensions.

[2] When `libjpeg-turbo` was built without `SIMD` support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to `0xFF`. This has been fixed. `TJUnitTest` has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the `libjpeg-turbo SSE2 SIMD` code would not preserve the upper 64 bits of `xmm6` and `xmm7` on `Win64` platforms, which violated the `Win64` calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt `JPEG` images (specifically, images in which the component count was erroneously set to a large value) would cause `libjpeg-turbo` to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The `MASKMOVDQU` instruction, which was used by the `libjpeg-turbo SSE2 SIMD` code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added `SIMD` acceleration for performing `4:2:2` upsampling on `NEON-capable ARM` platforms. This speeds up the decompression of `4:2:2 JPEGs` by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form "'%define' expects a macro identifier".

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

## 1.2.0

=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdcfg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See <http://crbug.com/72399> for more information.

[3] Added a compile-time macro (LIBJPEG\_TURBO\_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can

be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)

=====

[1] Added a Java wrapper for the TurboJPEG API. See `java/README` for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as `jpegtran`, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to `tjbench` (the TurboJPEG benchmark, formerly called "jpgtest".)

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed `libjpeg-turbo`, in its entirety, to be re-licensed under a BSD-style license.

[9] `libjpeg-turbo` can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of `TJBUFSIZE()` that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the `libjpeg` memory source and destination managers, which allows the

TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS\_EXT\_RGBX, JCS\_EXT\_BGRX, JCS\_EXT\_XBGR, or JCS\_EXT\_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

### 1.1.1

=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in `jpeg_read_coefficients()` whereby it would not initialize `cinfo->image_width` and `cinfo->image_height` if libjpeg v7 or v8 emulation was enabled. This specifically caused the `jpegoptim` program to fail if it was linked against a version of `libjpeg-turbo` that was built with libjpeg v7 or v8 emulation.

[6] Eliminated excessive I/O overhead that occurred when reading BMP files in `cjpeg`.

[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  $\geq 98$  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.

[4] Fixed visual artifacts in grayscale JPEG compression caused by a typo in the RGB-to-luminance lookup tables.

[5] The Windows distribution packages now include the libjpeg run-time programs (`cjpeg`, etc.)

[6] All packages now include `jpgtest`.

[7] The TurboJPEG dynamic library now uses versioned symbols.

[8] Added two new TurboJPEG API functions, `tjEncodeYUV()` and `tjDecompressToYUV()`, to replace the somewhat hackish `TJ_YUV` flag.

## 1.0.90 (1.1 beta1)

=====

- [1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.
- [2] Created a new CMake-based build system for the Visual C++ and MinGW builds.
- [3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.
- [4] jpgtest can now be used to test decompression performance with existing JPEG images.
- [5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.
- [6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.
- [7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)
- [8] Added a TJ\_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.
- [9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.
- [10] Added further protections against invalid Huffman codes.

## 1.0.1

=====

- [1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.
- [2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.
- [3] configure script will now automatically determine whether the INCOMPLETE\_TYPES\_BROKEN macro should be defined.



1.0.0

=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.

[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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/ChangeLog.txt  
No license file was found, but licenses were detected in source scan.
```

```
# 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,  
# this list of conditions and the following disclaimer in the documentation  
# - Neither the name of the libjpeg-turbo Project nor the names of its  
# software without specific prior written permission.
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/release/uninstall.in  
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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/README  
No license file was found, but licenses were detected in source scan.

/\*

\* jdcolect.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* Modifications:

\* Copyright (C) 2009, 2011, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains output colorspace conversion routines.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolect.c  
No license file was found, but licenses were detected in source scan.

License: BSD-style

libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in

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

Package: {\_\_PKGNAME}

Version: {\_\_VERSION}-{\_\_BUILD}

Section: misc

Priority: optional

Architecture: {\_\_ARCH}

Essential: no

Maintainer: The libjpeg-turbo Project [<http://www.libjpeg-turbo.org>]

Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/deb-control.tmp1

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

/\*

\* jdtrans.c

\*

\* Copyright (C) 1995-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains library routines for transcoding decompression,

\* that is, reading raw DCT coefficient arrays from an input JPEG file.

\* The routines in jdapimin.c will also be needed by a transcoder.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdtrans.c  
No license file was found, but licenses were detected in source scan.

```
;  
;jsimdext.inc - common declarations  
;  
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB  
; Copyright 2010 D. R. Commander  
;  
; Based on  
; x86 SIMD extension for IJG JPEG library - version 1.02  
;  
; Copyright (C) 1999-2006, MIYASAKA Masaru.  
;  
; This software is provided 'as-is', without any express or implied  
; warranty. In no event will the authors be held liable for any damages  
; arising from the use of this software.  
;  
; Permission is granted to anyone to use this software for any purpose,  
; including commercial applications, and to alter it and redistribute it  
; freely, subject to the following restrictions:  
;  
; 1. The origin of this software must not be misrepresented; you must not  
; claim that you wrote the original software. If you use this software  
; in a product, an acknowledgment in the product documentation would be  
; appreciated but is not required.  
; 2. Altered source versions must be plainly marked as such, and must not be  
; misrepresented as being the original software.  
; 3. This notice may not be removed or altered from any source distribution.  
;  
; [TAB8]  
  
; =====  
; System-dependent configurations  
  
%ifdef WIN32 ; ---(nasm -fwin32 -DWIN32 ...)-----  
; * Microsoft Visual C++  
; * MinGW (Minimalist GNU for Windows)  
; * CygWin  
; * LCC-Win32  
  
; -- segment definition --  
;  
%ifdef __YASM_VER__
```

```

%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .rdata align=16 public use32 class=CONST
%endif

%elifdef WIN64 ; ----(nasm -fwin64 -DWIN64 ...)-----
; * Microsoft Visual C++

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name) name ; foo() -> foo

%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] -DELFB ...)-----
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline

```

```

;
#define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__ ; ELF supports PIC
#define EXTN(name) name ; foo() -> foo

%elifdef AOUT ; ----(nasm -faoutb/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -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_OWORD   ; sizeof(XMMWORD)
#define XMMWORD_BIT    OWORD_BIT      ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
#define XMM_DWORD
#define XMM_MMWORD

#define SIZEOF_BYTE     1              ; sizeof(BYTE)
#define SIZEOF_WORD     2              ; sizeof(WORD)
#define SIZEOF_DWORD    4              ; sizeof(DWORD)
#define SIZEOF_QWORD    8              ; sizeof(QWORD)
#define SIZEOF_OWORD    16             ; sizeof(OWORD)

#define BYTE_BIT        8              ; CHAR_BIT in C
#define WORD_BIT        16             ; sizeof(WORD)*BYTE_BIT
#define DWORD_BIT       32             ; sizeof(DWORD)*BYTE_BIT
#define QWORD_BIT       64             ; sizeof(QWORD)*BYTE_BIT
#define OWORD_BIT       128            ; sizeof(OWORD)*BYTE_BIT

; -----
; External Symbol Name
;
#ifndef EXTN
#define EXTN(name) _ %+ name ; foo() -> _foo
#endif
; -----

```



```

; Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%undef PIC
%endif

%ifdef PIC ; -----

%ifidn GOT_SYMBOL,_MACHO_PIC_ ; -----

; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

```

```
SECTION SEG_CONST
```

```
const_base:
```

```
%define GOTOFF(got,sym) (got) + (sym) - const_base
```

```
%imacro get_GOT 1
```

```
; NOTE: this macro destroys ecx register.
```

```
call %%geteip
```

```
add ecx, byte (%%ref - $)
```

```
jmp short %%adjust
```

```
%%geteip:
```

```
mov ecx, POINTER [esp]
```

```
ret
```

```
%%adjust:
```

```
push ebp
```

```
xor ebp,ebp ; ebp = 0
```

```
%ifidni %1,ebx ; (%1 == ebx)
```

```
; db 0x8D,0x9C + jmp near const_base =
```

```
; lea ebx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,9C,E9,(offset32)
```

```
db 0x8D,0x9C ; 8D,9C
```

```
jmp near 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)
```

```
db 0x8D,0x8C ; 8D,8C
```

```
jmp near const_base ; E9,(const_base-%%ref)
```

```
%%ref: mov %1, ecx
```

```
%endif ; (%1 == ebx)
```

```
pop ebp
```

```
%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
jmp short %%done
%%geteip:
mov %1, POINTER [esp]
ret
%%done:
%endmacro

%endif ; GOT_SYMBOL == _MACHO_PIC_ -----

%imacro pushpic 1.nolist
push %1
%endmacro
%imacro poppic 1.nolist
pop %1
%endmacro
%imacro movpic 2.nolist
mov %1,%2
%endmacro

%else ; !PIC -----

%define GOTOFF(got,sym) (sym)

%imacro get_GOT 1.nolist
%endmacro
%imacro pushpic 1.nolist
%endmacro
%imacro poppic 1.nolist
%endmacro
%imacro movpic 2.nolist
%endmacro

%endif ; PIC -----

; -----
; Align the next instruction on {2,4,8,16,..}-byte boundary.
; ".balign n,,m" in GNU as
;
%define MSKLE(x,y) (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n) (($-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%%bs: times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) \

```

```

    db 0x90                ; nop
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 \
    db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \
    db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \
    db 0x8D,0xAD,0x00,0x00,0x00,0x00    ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \
    db 0x8D,0x6C,0x25,0x00                ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3 \
    db 0x8D,0x6D,0x00                    ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 \
    db 0x8B,0xED                          ; mov ebp,ebp
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/1 \
    db 0x90                ; nop
%endmacro

```

; Align the next data on {2,4,8,16,..}-byte boundary.

;

```

%imacro alignz 1.nolist
align %1, db 0 ; filling zeros
%endmacro

```

```

%ifdef __x86_64__

```

```

%ifdef WIN64

```

```

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub  rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub  rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7
%endmacro

```

```

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]

```

```
add    rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]
add    rsp, SIZEOF_XMMWORD
pop    rdi
pop    rsi
pop    r15
pop    r14
pop    r13
pop    r12
%endmacro
```

```
%else
```

```
%imacro collect_args 0
```

```
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro
```

```
%imacro uncollect_args 0
```

```
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro
```

```
%endif
```

```
%endif
```

```
;-----
; Defines picked up from the C headers
;
#include "jsimdcfg.inc"
;-----
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimdext.inc

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

/\*

\* jccolext.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* Modifications:

\* Copyright (C) 2009-2012, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains input colorspace conversion routines.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolext.c

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

/\*

\* 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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctflt.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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jchuff.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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmaster.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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdgif.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jmainct.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmainct.c
No license file was found, but licenses were detected in source scan.
```

```
{\rtf1\ansi\ansicpg1252\cocoartf1038\cocoasubrtf360
{\fonttbl{\f0\fswiss\fcharset0 Helvetica;}
{\colortbl;\red255\green255\blue255;}
\margl1440\margr1440\vieww26380\viewh15840\viewkind0
\deftab720
\pard\pardefstab720\ql\qnatural
```

\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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/release/ReadMe.rtf
```

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

- ```
/*
* jpeglib.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
```



\*  
\* This file defines the application interface for the JPEG library.  
\* Most applications using the library need only include this file,  
\* and perhaps jerror.h if they want to know the exact error codes.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpeglib.h  
No license file was found, but licenses were detected in source scan.

/\*  
\* 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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcomapi.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* jerror.h  
\*  
\* Copyright (C) 1994-1997, Thomas G. Lane.  
\* Modified 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 defines the error and message codes for the JPEG library.  
\* Edit this file to add new codes, or to translate the message strings to  
\* some other language.  
\* A set of error-reporting macros are defined too. Some applications using  
\* the JPEG library may wish to include this file to get the error codes  
\* and/or the macros.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.h  
No license file was found, but licenses were detected in source scan.

```
/*
 * 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdppm.c
```

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

```
/*
```

```
* jdhuft.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 (jdhuft.c) and the
```

\* progressive decoder (jdhuff.c). No other modules need to see these.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdhuff.h

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

/\*

\* cderror.h

\*

\* Copyright (C) 1994-1997, Thomas G. Lane.

\* Modified 2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file defines the error and message codes for the cjpeg/djpeg

\* applications. These strings are not needed as part of the JPEG library

\* proper.

\* Edit this file to add new codes, or to translate the message strings to

\* some other language.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cderror.h

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

/\*

\* jdatadst-tj.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* Modified 2009-2012 by Guido Vollbeding.

\* Modifications:

\* Copyright (C) 2011, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains compression data destination routines for the case of

\* emitting JPEG data to memory or to a file (or any stdio stream).

\* While these routines are sufficient for most applications,

\* some will want to use a different destination manager.

\* IMPORTANT: we assume that fwrite() will correctly transcribe an array of

\* JOCTETs into 8-bit-wide elements on external storage. If char is wider

\* than 8 bits on your machine, you may need to do some tweaking.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst-tj.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jquant1.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* Modifications:

\* Copyright (C) 2009, D. R. Commander

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains 1-pass color quantization (color mapping) routines.

\* These routines provide mapping to a fixed color map using equally spaced

\* color values. Optional Floyd-Steinberg or ordered dithering is available.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant1.c

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

; For conditions of distribution and use, see copyright notice in jsimdext.inc

; for more details.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2fst.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jimxfst.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2fst.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2fst-64.asm

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

/\*

```
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library.  These are the "standard" API routines that are
* used in the normal full-compression case.  They are not used by a
* transcoding-only application.  Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapistd.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* 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 INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/

#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
* The remaining options do not affect the JPEG library proper,

```

\* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).

\* Other applications can ignore these.

\*/

#ifndef JPEG\_CJPEG\_DJPEG

/\* These defines indicate which image (non-JPEG) file formats are allowed. \*/

#define BMP\_SUPPORTED /\* BMP image file format \*/

#define GIF\_SUPPORTED /\* GIF image file format \*/

#define PPM\_SUPPORTED /\* PBMPLUS PPM/PGM image file format \*/

#undef RLE\_SUPPORTED /\* Utah RLE image file format \*/

#define TARGA\_SUPPORTED /\* Targa image file format \*/

/\* Define this if you want to name both input and output files on the command

\* line, rather than using stdout and optionally stdin. You MUST do this if

\* your system can't cope with binary I/O to stdin/stdout. See comments at

\* head of cjpeg.c or djpeg.c.

\*/

#undef TWO\_FILE\_COMMANDLINE

/\* Define this if your system needs explicit cleanup of temporary files.

\* This is crucial under MS-DOS, where the temporary "files" may be areas

\* of extended memory; on most other systems it's not as important.

\*/

#undef NEED\_SIGNAL\_CATCHER

/\* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").

\* This is necessary on systems that distinguish text files from binary files,

\* and is harmless on most systems that don't. If you have one of the rare

\* systems that complains about the "b" spec, define this symbol.

\*/

#undef DONT\_USE\_B\_MODE

/\* Define this if you want percent-done progress reports from cjpeg/djpeg.

\*/

#undef PROGRESS\_REPORT

#endif /\* JPEG\_CJPEG\_DJPEG \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jconfig.txt

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

IIG 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:

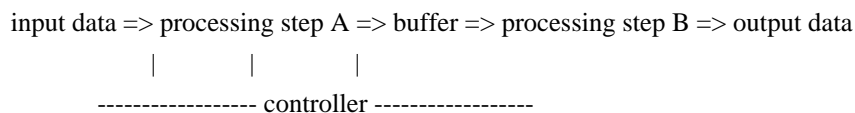
1A. Startup initialization at the beginning of image processing.  
The individual processing modules to be used in this run are selected and given initialization calls.

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:



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:

```

                                |-- Colospace 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  $V_{max}$  pixel rows of each component before downsampling, and  $V_k$  sample rows afterwards (remember  $V_k$  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).



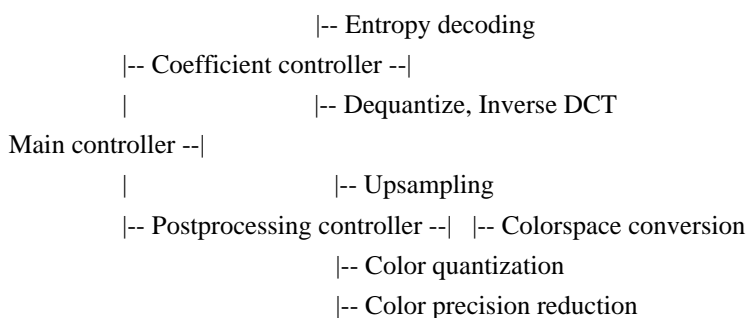
- \* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.
- \* 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:



As before, this diagram also represents typical control flow. The objects shown are:

- \* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary

task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

\* Coefficient controller: buffer controller for the DCT-coefficient data.

This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image.

(Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

\* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call.

For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

\* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we

merge dequantization and inverse DCT into a single step for speed reasons.

When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

\* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

\* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

\* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

\* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module

is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

\* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

\* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: `jdinput.c` controls only input-side processing, while `jdmaster.c` handles overall initialization and output-side control.

\* Marker reading: decodes JPEG markers (except for RSTn).

\* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

\* Memory manager: same as for compression library.

\* Error handler: same as for compression library.

\* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

\*\*\* Decompression input and output separation \*\*\*

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this

processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls `jpeg_consume_input()`; otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See `libjpeg.txt` for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. `jpeg_consume_input()` is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the `cinfo` data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

\*\*\* Data formats \*\*\*

Arrays of pixel sample values use the following data structure:

```
typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef 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  $\geq 0$ . 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. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling `jpeg_finish_compress()` will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

### \*\*\* Memory manager services \*\*\*

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever `malloc/free` are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

- \* `JPOOL_PERMANENT` lasts until master record is destroyed
- \* `JPOOL_IMAGE` lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, `JPOOL_PASS` = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)



The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:

- \* On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.

- \* Pool allocation heuristics may differ for large and small objects.

Note that individual "large" objects cannot exceed the size allowed by type size\_t, which may be 64K or less on some machines.

3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit\_xxx routines.

2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.

3. `realize_virt_arrays` will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the `realize_virt_arrays` computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing `realize_virt_arrays` to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in `jdcoefct.c` for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

\*\*\* Memory manager internal structure \*\*\*

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (`jmemmgr.c`) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

`jpeg_mem_init`, `jpeg_mem_term` system-dependent initialization/shutdown

`jpeg_get_small`, `jpeg_free_small` interface to `malloc` and `free` library routines  
(or their equivalents)

`jpeg_get_large`, `jpeg_free_large` interface to FAR `malloc/free` in MSDOS machines;  
else usually the same as

jpeg\_get\_small/jpeg\_free\_small

jpeg\_mem\_available estimate available memory

jpeg\_open\_backing\_store create a backing-store object

read\_backing\_store, manipulate a backing-store object

write\_backing\_store,

close\_backing\_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). `jpeg_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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/structure.txt  
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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctfst.c  
No license file was found, but licenses were detected in source scan.

/\*

\* cdjpeg.h

\*

\* Copyright (C) 1994-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains common declarations for the sample applications

\* cjpeg and djpeg. It is NOT used by the core JPEG library.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.h  
No license file was found, but licenses were detected in source scan.

/\*

```

* rdcolmap.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file implements djpeg's "-map file" switch. It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
*
* Currently, these file formats are supported for the map file:
* GIF: the contents of the GIF's global colormap are used.
* PPM (either text or raw flavor): the entire file is read and
*   each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color. Such a file can be extracted from an
* ordinary image PPM file with ppmtomap(1).
*
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
*/
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdcolmap.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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemsys.h  
No license file was found, but licenses were detected in source scan.

/\*

\* jccolor.c

\*

\* This file was part of the Independent JPEG Group's software:  
\* Copyright (C) 1991-1996, Thomas G. Lane.  
\* Modifications:  
\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB  
\* Copyright (C) 2009-2012, D. R. Commander.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains input colorspace conversion routines.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolor.c  
No license file was found, but licenses were detected in source scan.

/\*

\* 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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdtarga.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* jfdctint.c  
\*  
\* Copyright (C) 1991-1996, Thomas G. Lane.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains a slow-but-accurate integer implementation of the  
\* forward DCT (Discrete Cosine Transform).  
\*  
\* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT  
\* on each column. Direct algorithms are also available, but they are  
\* much more complex and seem not to be any faster when reduced to code.  
\*  
\* This implementation is based on an algorithm described in  
\* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT  
\* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,  
\* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.  
\* The primary algorithm described there uses 11 multiplies and 29 adds.  
\* We use their alternate method with 12 multiplies and 32 adds.  
\* The advantage of this method is that no data path contains more than one  
\* multiplication; this allows a very simple and accurate implementation in  
\* scaled fixed-point arithmetic, with a minimal number of shifts.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctint.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* jutils.c  
\*  
\* Copyright (C) 1991-1996, Thomas G. Lane.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains tables and miscellaneous utility routines needed  
\* for both compression and decompression.



\* Note we prefix all global names with "j" to minimize conflicts with  
\* a surrounding application.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jutils.c  
No license file was found, but licenses were detected in source scan.

/\*

\* 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.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrppm.c  
No license file was found, but licenses were detected in source scan.

/\*

\* wrtarga.c

\*

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains routines to write output images in Targa format.

\*

\* These routines may need modification for non-Unix environments or

\* specialized applications. As they stand, they assume output to

\* an ordinary stdio stream.

\*

\* Based on code contributed by Lee Daniel Crocker.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrtarga.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jddctmgr.c

\*

\* This file was part of the Independent JPEG Group's software:  
\* Copyright (C) 1994-1996, Thomas G. Lane.  
\* Modified 2002-2010 by Guido Vollbeding.  
\* Modifications:  
\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB  
\* Copyright (C) 2010, D. R. Commander.  
\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains the inverse-DCT management logic.  
\* This code selects a particular IDCT implementation to be used,  
\* and it performs related housekeeping chores. No code in this file  
\* is executed per IDCT step, only during output pass setup.  
\*  
\* Note that the IDCT routines are responsible for performing coefficient  
\* dequantization as well as the IDCT proper. This module sets up the  
\* dequantization multiplier table needed by the IDCT routine.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jddctmgr.c  
No license file was found, but licenses were detected in source scan.

/\*

\* 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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapimin.c  
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

\* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).

\*

\* Both sequential and progressive modes are supported in this single module.

\*

\* Suspension is not currently supported in this module.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcarith.c  
No license file was found, but licenses were detected in source scan.

## IJG JPEG LIBRARY: CODING RULES

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Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see [jpeg/doc/cstyle.ms.tbl.Z](#), or [cstyle.txt.Z](#) for those without nroff/tbl).

Block comments should be laid out thusly:

/\*

\* Block comments in this style.

\*/

We indent statements in K&R style, e.g.,

```
if (test) {
    then-part;
} else {
    else-part;
}
```

with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., `multi_word_name` (not `multiWordName`). Preprocessor symbols and enum constants are similar but upper case (`MULTI_WORD_NAME`). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). `ansi2knr` is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```
LOCAL(int *)
function_name (int a, char *b)
{
    code...
}
```

Note that each function definition must begin with `GLOBAL(type)`, `LOCAL(type)`, or `METHODDEF(type)`. These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

`ansi2knr` does not transform method declarations (function pointers in structs). We handle these with a macro `JMETHOD`, defined as

```
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif
```

which is used like this:

```
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size\_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size\_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.
2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg\_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED\_SHORT\_EXTERNAL\_NAMES is set.
3. Don't use global variables; anything that must be used in another module should be in the common data structures.
4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).
5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other

applications.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/coderules.txt  
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- \* 3. This notice may not be removed or altered from any source distribution.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd\_arm\_neon.S  
No license file was found, but licenses were detected in source scan.

/\*

\* jsimddct.h

\*

\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

\*

\* Based on the x86 SIMD extension for IJG JPEG library,

\* Copyright (C) 1999-2006, MIYASAKA Masaru.

\* For conditions of distribution and use, see copyright notice in jsimdext.inc

\*

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimddct.h  
No license file was found, but licenses were detected in source scan.

/\*

\* jdhuft.c

\*

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\* Copyright (C) 1991-1997, Thomas G. Lane.

\* Modifications:

\* Copyright (C) 2009-2011, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains Huffman entropy decoding routines.

\*

\* Much of the complexity here has to do with supporting input suspension.

\* If the data source module demands suspension, we want to be able to back

\* up to the start of the current MCU. To do this, we copy state variables  
\* into local working storage, and update them back to the permanent  
\* storage only upon successful completion of an MCU.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdhuff.c

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

/\*

\* 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,

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\*

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd.h

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

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; more details.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/simd/jfmmxint.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2int-  
64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/simd/jiss2int.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2int-  
64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/simd/jimxint.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-

1.2.90/simd/jfss2int.asm

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

/\*

\* jcdctmgr.c

\*

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\* Modifications:

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\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

\* Copyright (C) 2011 D. R. Commander

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains the forward-DCT management logic.

\* This code selects a particular DCT implementation to be used,

\* and it performs related housekeeping chores including coefficient

\* quantization.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcdctmgr.c

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

/\*

\* 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

\* (ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82).

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jaricom.c

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

/\*

\* 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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jchuff.h  
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\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/doc/html/search/search.js  
No license file was found, but licenses were detected in source scan.

/\*

\* rdbmp.c

\*

\* This file was part of the Independent JPEG Group's software:  
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\* Modified 2009-2010 by Guido Vollbeding.  
\* Modifications:  
\* Modified 2011 by Siarhei Siamashka.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains routines to read input images in Microsoft "BMP"  
\* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).  
\* Currently, only 8-bit and 24-bit images are supported, not 1-bit or  
\* 4-bit (feeding such low-depth images into JPEG would be silly anyway).  
\* Also, we don't support RLE-compressed files.  
\*  
\* These routines may need modification for non-Unix environments or  
\* specialized applications. As they stand, they assume input from  
\* an ordinary stdio stream. They further assume that reading begins  
\* at the start of the file; start\_input may need work if the  
\* user interface has already read some data (e.g., to determine that  
\* the file is indeed BMP format).  
\*  
\* This code contributed by James Arthur Boucher.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdbmp.c  
No license file was found, but licenses were detected in source scan.

```
{\rtf1\ansi\ansicpg1252\cocoartf1038\cocoasubrtf350
{\fonttbl{\f0\fswiss\fcharset0 Helvetica;}
{\colortbl;\red255\green255\blue255;}
{*\listtable{\list\listtemplateid1\listhybrid{\listlevel\levelnfc23\levelnfcn23\leveljc0\leveljcn0\levelfollow0\levelstartat1\levelspace360\levelindent0{\*\levelmarker {\disc}}}{\leveltext\leveltemplateid1\01\uc0\u8226
;}{\levelnumbers;}\fi-360\li720\lin720 }{\listname ;}{\listid1 }}
{*\listoverrideable{\listoverride\listid1\listoverridecount0\ls1 }}
\margl1440\margr1440\vieww9820\viewh8480\viewkind0
\defstab720
\pard\pardefstab720
```

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\pard\pardefstab720\qc

\cf0 \

\pard\pardefstab720

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}

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/License.rtf

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/\*

```
* jdpostct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
*
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdpostct.c
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```

```
/*
* jinclude.h
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jinclude.h
No license file was found, but licenses were detected in source scan.
```

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Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo.spec
```

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```
/*
 * jdcolor.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modified 2011 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2009, 2011-2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolor.c
```

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

```
/*
 * 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemnobs.c
```

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

```
/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
```

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains downsampling routines.

\*

\* Downsampling input data is counted in "row groups". A row group

\* is defined to be max\_v\_samp\_factor pixel rows of each component,

\* from which the downsampler produces v\_samp\_factor sample rows.

\* A single row group is processed in each call to the downsampler module.

\*

\* The downsampler is responsible for edge-expansion of its output data

\* to fill an integral number of DCT blocks horizontally. The source buffer

\* may be modified if it is helpful for this purpose (the source buffer is

\* allocated wide enough to correspond to the desired output width).

\* The caller (the prep controller) is responsible for vertical padding.

\*

\* The downsampler may request "context rows" by setting need\_context\_rows

\* during startup. In this case, the input arrays will contain at least

\* one row group's worth of pixels above and below the passed-in data;

\* the caller will create dummy rows at image top and bottom by replicating

\* the first or last real pixel row.

\*

\* An excellent reference for image resampling is

\* Digital Image Warping, George Wolberg, 1990.

\* Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.

\*

\* 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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcsample.c  
No license file was found, but licenses were detected in source scan.

```
/*
 * 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 jsimdx.c
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jdmainct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmainct.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jcparam.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2003-2008 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 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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcparam.c  
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  
\* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).  
\*  
\* Both sequential and progressive modes are supported in this single module.  
\*  
\* Suspension is not currently supported in this module.  
\*/

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdarith.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* jdatasrc.c  
\*  
\* This file was part of the Independent JPEG Group's software:  
\* Copyright (C) 1994-1996, Thomas G. Lane.  
\* Modified 2009-2011 by Guido Vollbeding.  
\* 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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatasrc.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jpegtran.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.

\* Modifications:

\* Copyright (C) 2010, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains a command-line user interface for JPEG transcoding.

\* It is very similar to cjpeg.c, and partly to djpeg.c, but provides

\* lossless transcoding between different JPEG file formats. It also

\* provides some lossless and sort-of-lossless transformations of JPEG data.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegtran.c  
No license file was found, but licenses were detected in source scan.

From c51b66ebcace2adec0cfbe42d25cb418ed0c02a2 Mon Sep 17 00:00:00 2001

From: DRC <information@libjpeg-turbo.org>

Date: Fri, 20 Jul 2018 17:21:36 -0500

Subject: [PATCH] cjpeg: Fix OOB read caused by malformed 8-bit BMP

... in which one or more of the color indices is out of range for the number of palette entries.

Fix partly borrowed from jpeg-9c. This commit also adopts Guido's JERR\_PPM\_OUTOFRANGE enum value in lieu of our project-specific JERR\_PPM\_TOOLARGE enum value.

Fixes #258

---

cderror.h | 5 +++--

rdbmp.c | 7 ++++++-

rdppm.c | 4 +++-

3 files changed, 11 insertions(+), 5 deletions(-)

diff --git a/cderror.h b/cderror.h

index d69b501..46b0f49 100644



```

--- a/cderror.h
+++ b/cderror.h
@@ -2,7 +2,7 @@
* cderror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
- * Modified 2009 by Guido Vollbeding.
+ * Modified 2009-2017 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.
*
@@ -48,6 +48,7 @@ JMESSAGE(JERR_BMP_COLORSPACE, "BMP output must be grayscale or RGB")
JMESSAGE(JERR_BMP_COMPRESSED, "Sorry, compressed BMPs not yet supported")
JMESSAGE(JERR_BMP_EMPTY, "Empty BMP image")
JMESSAGE(JERR_BMP_NOT, "Not a BMP file - does not start with BM")
+JMESSAGE(JERR_BMP_OUTOFRANGE, "Numeric value out of range in BMP file")
JMESSAGE(JTRC_BMP, "%ux%u 24-bit BMP image")
JMESSAGE(JTRC_BMP_MAPPED, "%ux%u 8-bit colormapped BMP image")
JMESSAGE(JTRC_BMP_OS2, "%ux%u 24-bit OS2 BMP image")
@@ -74,8 +75,8 @@ JMESSAGE(JWRN_GIF_NOMOREDATA, "Ran out of GIF bits")
#ifdef PPM_SUPPORTED
JMESSAGE(JERR_PPM_COLORSPACE, "PPM output must be grayscale or RGB")
JMESSAGE(JERR_PPM_NONNUMERIC, "Nonnumeric data in PPM file")
-JMESSAGE(JERR_PPM_TOOLARGE, "Integer value too large in PPM file")
JMESSAGE(JERR_PPM_NOT, "Not a PPM/PGM file")
+JMESSAGE(JERR_PPM_OUTOFRANGE, "Numeric value out of range in PPM file")
JMESSAGE(JTRC_PGM, "%ux%u PGM image")
JMESSAGE(JTRC_PGM_TEXT, "%ux%u text PGM image")
JMESSAGE(JTRC_PPM, "%ux%u PPM image")
diff --git a/rdbmp.c b/rdbmp.c
index c053074..7a27cab 100644
--- a/rdbmp.c
+++ b/rdbmp.c
@@ -3,7 +3,7 @@
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
- * Modified 2009-2010 by Guido Vollbeding.
+ * Modified 2009-2017 by Guido Vollbeding.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
@@ -64,6 +64,7 @@ typedef struct _bmp_source_struct {
    JDIMENSION row_width; /* Physical width of scanlines in file */

    int bits_per_pixel; /* remembers 8- or 24-bit format */
+   int cmap_length; /* colormap length */
} bmp_source_struct;

```

```

@@ -124,6 +125,7 @@ get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
{
    bmp_source_ptr source = (bmp_source_ptr) sinfo;
    register JSAMPARRAY colormap = source->colormap;
+   int cmaplen = source->cmap_length;
    JSAMPARRAY image_ptr;
    register int t;
    register JSAMPROW inptr, outptr;
@@ -140,6 +142,8 @@ get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
    outptr = source->pub.buffer[0];
    for (col = cinfo->image_width; col > 0; col--) {
        t = GETJSAMPLE(*inptr++);
+   if (t >= cmaplen)
+       ERREXIT(cinfo, JERR_BMP_OUTOFRANGE);
        *outptr++ = colormap[0][t]; /* can omit GETJSAMPLE() safely */
        *outptr++ = colormap[1][t];
        *outptr++ = colormap[2][t];
@@ -399,6 +403,7 @@ start_input_bmp (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
    source->colormap = (*cinfo->mem->alloc_sarray)
        ((j_common_ptr) cinfo, JPOOL_IMAGE,
         (JDIMENSION) biClrUsed, (JDIMENSION) 3);
+   source->cmap_length = (int)biClrUsed;
    /* and read it from the file */
    read_colormap(source, (int) biClrUsed, mapentrysize);
    /* account for size of colormap */
diff --git a/rdppm.c b/rdppm.c
index 5da1646..59da2bb 100644
--- a/rdppm.c
+++ b/rdppm.c
@@ -76,7 +76,7 @@ typedef struct {
    JSAMPROW pixrow; /* FAR pointer to same */
    size_t buffer_width; /* width of I/O buffer */
    JSAMPLE *rescale; /* => maxval-remapping array, or NULL */
-   int maxval;
+   unsigned int maxval;
} ppm_source_struct;

typedef ppm_source_struct * ppm_source_ptr;
@@ -126,7 +126,7 @@ read_pbm_integer (j_compress_ptr cinfo, FILE * infile, int maxval)
}

if (val > maxval)
-   ERREXIT(cinfo, JERR_PPM_TOOLARGE);
+   ERREXIT(cinfo, JERR_PPM_OUTOFRANGE);

return val;

```

}

--

## 2.17.2

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo12-CVE-2018-14498.patch

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 GIFENCODER by David Rowley <mgardi@watdscu.waterloo.edu>.

\* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.

\* Copyright (C) 1989 by Jef Poskanzer.

\* Permission to use, copy, modify, and distribute this software and its

\* documentation for any purpose and without fee is hereby granted, provided

\* that the above copyright notice appear in all copies and that both that

\* copyright notice and this permission notice appear in supporting

\* documentation. This software is provided "as is" without express or

\* implied warranty.

\*

\* We are also required to state that

\* "The Graphics Interchange Format(c) is the Copyright property of

\* CompuServe Incorporated. GIF(sm) is a Service Mark property of

\* CompuServe Incorporated."

\*/

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrgif.c
No license file was found, but licenses were detected in source scan.

;
; jdct.inc - private declarations for forward & reverse DCT subsystems
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
#define RANGE_MASK (MAXJSAMPLE * 4 + 3) ; 2 bits wider than legal samples

#define ROW(n,b,s) ((b)+(n)*(s))
#define COL(n,b,s) ((b)+(n)*(s)*DCTSIZE)

#define DWBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
#define MMBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
#define XMMBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; -----

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdct.inc
No license file was found, but licenses were detected in source scan.

/*
* wrjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse

```

\* JPEG markers.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrjpgcom.c

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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapimin.c

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

/\*

\* 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/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcphuff.c

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

```
/*
 * jdatadst.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage.  If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst.c
```

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

```
/*
 * jdatasrc-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2011 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage.  If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatasrc-tj.c
```

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

```
/*
* Copyright (C)2009-2012 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,
* this list of conditions and the following disclaimer in the documentation
* and/or other materials provided with the distribution.
* - Neither the name of the libjpeg-turbo Project nor the names of its
* contributors may be used to endorse or promote products derived from this
* software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS",
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjbench.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/java/TJBench.java
```

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

```
/*
* jfdctflt.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
```

\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains a floating-point implementation of the  
\* forward DCT (Discrete Cosine Transform).  
\*  
\* This implementation should be more accurate than either of the integer  
\* DCT implementations. However, it may not give the same results on all  
\* machines because of differences in roundoff behavior. Speed will depend  
\* on the hardware's floating point capacity.  
\*  
\* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT  
\* on each column. Direct algorithms are also available, but they are  
\* much more complex and seem not to be any faster when reduced to code.  
\*  
\* This implementation is based on Arai, Agui, and Nakajima's algorithm for  
\* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in  
\* Japanese, but the algorithm is described in the Pennebaker & Mitchell  
\* JPEG textbook (see REFERENCES section in file README). The following code  
\* is based directly on figure 4-8 in P&M.  
\* While an 8-point DCT cannot be done in less than 11 multiplies, it is  
\* possible to arrange the computation so that many of the multiplies are  
\* simple scalings of the final outputs. These multiplies can then be  
\* folded into the multiplications or divisions by the JPEG quantization  
\* table entries. The AA&N method leaves only 5 multiplies and 29 adds  
\* to be done in the DCT itself.  
\* The primary disadvantage of this method is that with a fixed-point  
\* implementation, accuracy is lost due to imprecise representation of the  
\* scaled quantization values. However, that problem does not arise if  
\* we use floating point arithmetic.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctflt.c  
No license file was found, but licenses were detected in source scan.

## USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:

Copyright (C) 1994-2011, Thomas G. Lane, Guido Vollbeding.

Modifications:

Copyright (C) 2010, D. R. Commander.

For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.



The file `example.c` provides heavily commented skeleton code for calling the JPEG library. Also see `jpeglib.h` (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been \*major\* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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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

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg\_create\_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

## 2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
```

```
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg\_start\_compress() and jpeg\_finish\_compress().

### 3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

```
image_width  Width of image, in pixels
image_height Height of image, in pixels
input_components Number of color channels (samples per pixel)
in_color_space Color space of source image
```

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input\_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in\_color\_space field must be assigned one of the J\_COLOR\_SPACE enum constants, typically JCS\_RGB or JCS\_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg\_set\_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in\_color\_space correctly before calling jpeg\_set\_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg\_start\_compress(). There's no harm in calling jpeg\_set\_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```
cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */
```

4. jpeg\_start\_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call `jpeg_start_compress()` to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called `jpeg_start_compress()`, you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)

```
jpeg_write_scanlines(...);
```

Now write all the required image data by calling `jpeg_write_scanlines()` one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you **WILL** use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently.

Examples of this can be found in the sample application `cjpeg`.



The library maintains a count of the number of scanlines written so far in the `next_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like `"while (cinfo.next_scanline < cinfo.image_height)"`.

Code for this step depends heavily on the way that you store the source data. `example.c` shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

`jpeg_write_scanlines()` returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

- \* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
- \* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal `stdio` destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of `next_scanline`.

## 6. `jpeg_finish_compress(...)`;

After all the image data has been written, call `jpeg_finish_compress()` to complete the compression cycle. This step is **ESSENTIAL** to ensure that the last bufferload of data is written to the data destination.

`jpeg_finish_compress()` also releases working memory associated with the JPEG object.

Typical code:

```
jpeg_finish_compress(&cinfo);
```

If using the `stdio` destination manager, don't forget to close the output `stdio` stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, `jpeg_finish_compress()` will perform the additional passes using data buffered by the first pass. In this case `jpeg_finish_compress()` may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call `jpeg_finish_compress()` before writing the necessary total number of scanlines. If you wish to abort compression, call `jpeg_abort()` as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call `jpeg_set_defaults()` to adjust for the new colorspace; and then you'll need to repeat all of step 3.

#### 7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling `jpeg_destroy_compress()`. This will free all subsidiary memory (regardless of the previous state of the object). Or you can call `jpeg_destroy()`, which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, `jpeg_destroy()` should be passed a `j_common_ptr`.)

If you allocated the `jpeg_compress_struct` structure from `malloc()`, freeing it is your responsibility --- `jpeg_destroy()` won't. Ditto for the error handler structure.

Typical code:

```
jpeg_destroy_compress(&cinfo);
```

#### 8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

\* If you don't need the JPEG object any more, just call `jpeg_destroy_compress()` or `jpeg_destroy()` to release memory. This is

legitimate at any point after calling `jpeg_create_compress()` --- in fact, it's safe even if `jpeg_create_compress()` fails.

\* If you want to re-use the JPEG object, call `jpeg_abort_compress()`, or call `jpeg_abort()` which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. `jpeg_abort()` is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call `term_destination()`. (See "Compressed data handling", below, for more about that.)

`jpeg_destroy()` and `jpeg_abort()` are the only safe calls to make on a JPEG object that has reported an error by calling `error_exit` (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

## Decompression details

-----

Here we revisit the JPEG decompression outline given in the overview.

### 1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct `jpeg_decompress_struct`" and you call `jpeg_create_decompress()`. Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

### 2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

**WARNING:** it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg\_read\_header() and jpeg\_finish\_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg\_read\_header() to jpeg\_finish\_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg\_read\_header() to obtain image info.

Typical code for this step is just

```
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

- \* A suspending data source is used --- in that case jpeg\_read\_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
- \* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the

image dimensions and other header info for a JPEG file. In that case, call `jpeg_destroy()` when you are done with the JPEG object, or call `jpeg_abort()` to return it to an idle state before selecting a new data source and reading another header.

#### 4. Set parameters for decompression.

`jpeg_read_header()` sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to `jpeg_read_header()`. If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

#### 5. `jpeg_start_decompress(...)`;

Once the parameter values are satisfactory, call `jpeg_start_decompress()` to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

```
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);
```

#### 9. Aborting.

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 `jinclde.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`)  
[libjpeg v7+ API/ABI emulation only]

Set default quantization tables with linear `q_scale_factor[]` values (see below).

`jpeg_add_quant_table` (`j_compress_ptr` cinfo, int `which_tbl`,  
const unsigned int \*`basic_table`,  
int `scale_factor`, boolean `force_baseline`)

Allows an arbitrary quantization table to be created. `which_tbl` indicates which table slot to fill. `basic_table` points to an array of 64 unsigned ints given in normal array order. These values are multiplied by `scale_factor/100` and then clamped to the range 1..65535 (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 `JDCT_FLOAT` method is very slightly more accurate than the `JDCT_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 `JDCT_IFAST` method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. `JDCT_DEFAULT` and `JDCT_FASTEST` are macros configurable by each installation.

`J_COLOR_SPACE` `jpeg_color_space`

`int num_components`

The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using `jpeg_set_color_space()` if you want to change these.

`boolean optimize_coding`

`TRUE` causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is `FALSE`, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is `TRUE`, you need not supply Huffman tables at all, and any you do supply will be overwritten.

`unsigned int restart_interval`

`int restart_in_rows`

To emit restart markers in the JPEG file, set one of these nonzero.

Set `restart_interval` to specify the exact interval in MCU blocks.

Set `restart_in_rows` to specify the interval in MCU rows. (If `restart_in_rows` is not 0, then `restart_interval` is set after the image width in MCUs is computed.) Defaults are zero (no restarts).

One restart marker per MCU row is often a good choice.

NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs.

If you use restarts, you may want to use larger intervals in those cases.

```
const jpeg_scan_info * scan_info
int num_scans
```

By default, `scan_info` is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, `scan_info` points to an array of scan definition records of length `num_scans`. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (`jpeg_simple_progression` creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

```
int smoothing_factor
```

If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult `jcsample.c` for details of the smoothing algorithm. The default is zero.

```
boolean write_JFIF_header
```

If TRUE, a JFIF APP0 marker is emitted. `jpeg_set_defaults()` and `jpeg_set_colorspace()` set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

```
UINT8 JFIF_major_version
```

```
UINT8 JFIF_minor_version
```

The version number to be written into the JFIF marker.

`jpeg_set_defaults()` initializes the version to 1.01 (major=minor=1).

You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

```
UINT8 density_unit
```

```
UINT16 X_density
```

```
UINT16 Y_density
```

The resolution information to be written into the JFIF marker;

not used otherwise. `density_unit` may be 0 for unknown,

1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1

indicating square pixels of unknown size.

```
boolean write_Adobe_marker
```

If TRUE, an Adobe APP14 marker is emitted. `jpeg_set_defaults()` and `jpeg_set_colorspace()` set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both `write_JFIF_header` and `write_Adobe_marker`. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT\_TBL \* quant\_tbl\_ptrs[NUM\_QUANT\_TBLS]  
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg\_add\_quant\_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q\_scale\_factor[NUM\_QUANT\_TBLS]  
[libjpeg v7+ API/ABI emulation only]  
Linear quantization scaling factors (0-100, default 100) for use with jpeg\_default\_qtables().  
See rdswitch.c and cjpeg.c for an example of usage.  
Note that the q\_scale\_factor[] values use "linear" scales, so JPEG quality levels chosen by the user must be converted to these scales using jpeg\_quality\_scaling(). Here is an example that corresponds to cjpeg -quality 90,70:

```
jpeg_set_defaults(cinfo);  
  
/* Set luminance quality 90. */  
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);  
/* Set chrominance quality 70. */  
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);  
  
jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

```
cinfo->comp_info[0].v_samp_factor = 1;  
cinfo->comp_info[0].h_samp_factor = 1;
```

JHUFF\_TBL \* dc\_huff\_tbl\_ptrs[NUM\_HUFF\_TBLS]  
JHUFF\_TBL \* ac\_huff\_tbl\_ptrs[NUM\_HUFF\_TBLS]  
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg\_set\_defaults(). If you need to allocate more table structures, jpeg\_alloc\_huff\_table() may be used.  
Note that optimal Huffman tables can be computed for an image by setting optimize\_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by `jpeg_start_compress()`. You can also call `jpeg_calc_jpeg_dimensions()` to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION `jpeg_width` Actual dimensions of output image.

JDIMENSION `jpeg_height`

Per-component parameters are stored in the struct `cinfo.comp_info[i]` for component number `i`. Note that components here refer to components of the JPEG color space, \*not\* the source image color space. A suitably large `comp_info[]` array is allocated by `jpeg_set_defaults()`; if you choose not to use that routine, it's up to you to allocate the array.

int `component_id`

The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int `h_samp_factor`

int `v_samp_factor`

Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int `quant_tbl_no`

Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int `dc_tbl_no`

int `ac_tbl_no`

DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int `component_index`

Must equal the component's index in `comp_info[]`. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection

-----

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by `jpeg_read_header()` and may be useful to the application in choosing decompression parameters:

JDIMENSION `image_width` Width and height of image  
JDIMENSION `image_height`  
int `num_components` Number of color components  
J\_COLOR\_SPACE `jpeg_color_space` Colorspace of image  
boolean `saw_JFIF_marker` TRUE if a JFIF APP0 marker was seen  
UINT8 `JFIF_major_version` Version information from JFIF marker  
UINT8 `JFIF_minor_version`  
UINT8 `density_unit` Resolution data from JFIF marker  
UINT16 `X_density`  
UINT16 `Y_density`  
boolean `saw_Adobe_marker` TRUE if an Adobe APP14 marker was seen  
UINT8 `Adobe_transform` Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J\_COLOR\_SPACE `out_color_space`  
Output color space. `jpeg_read_header()` sets an appropriate default based on `jpeg_color_space`; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to `JCS_GRAYSCALE` to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend `jdcolor.c` if you want an unusual conversion.

unsigned int scale\_num, scale\_denom

Scale the image by the fraction scale\_num/scale\_denom. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize\_colors

If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize\_colors is TRUE.

int desired\_number\_of\_colors

Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two\_pass\_quantize

If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J\_DITHER\_MODE dither\_mode

Selects color dithering method. Supported values are:

JDITHER\_NONE no dithering: fast, very low quality

JDITHER\_ORDERED ordered dither: moderate speed and quality

JDITHER\_FS Floyd-Steinberg dither: slow, high quality

Default is JDITHER\_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two\_pass\_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize\_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg\_read\_header(). The application can supply a color map by setting colormap non-NULL and setting actual\_number\_of\_colors to the map size. Otherwise, jpeg\_start\_decompress() selects a suitable color map and sets these two fields itself.

[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap

The color map, represented as a 2-D pixel array of out\_color\_components rows and actual\_number\_of\_colors columns. Ignored if not quantizing.

CAUTION: if the JPEG library creates its own colormap, the storage



pointed to by this field is released by `jpeg_finish_decompress()`.  
Copy the colormap somewhere else first, if you want to save it.

`int actual_number_of_colors`

The number of colors in the color map.

Additional decompression parameters that the application may set include:

`J_DCT_METHOD dct_method`

Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

`boolean do_fancy_upsampling`

If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

`boolean do_block_smoothing`

If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

`boolean enable_1pass_quant`

`boolean enable_external_quant`

`boolean enable_2pass_quant`

These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by `jpeg_start_decompress()`. You can also call `jpeg_calc_output_dimensions()` to obtain the values that will result from the current parameter settings.

This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* `jpeg_start_decompress()`.

`JDIMENSION output_width` Actual dimensions of output image.

`JDIMENSION output_height`

`int out_color_components` Number of color components in `out_color_space`.

`int output_components` Number of color components returned.

`int rec_outbuf_height` Recommended height of scanline buffer.

When quantizing colors, `output_components` is 1, indicating a single color map

index per pixel. Otherwise it equals out\_color\_components. The output arrays are required to be output\_width \* output\_components JSAMPLEs wide.

rec\_outbuf\_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg\_read\_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec\_outbuf\_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4).

If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec\_outbuf\_height so as to avoid data copying. (An output buffer larger than rec\_outbuf\_height lines is OK, but won't provide any material speed improvement over that height.)

### Special color spaces

-----

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB  $\Leftrightarrow$  YCbCr and CMYK  $\Leftrightarrow$  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.

jpegcolor.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`

`YCK => 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<=>YCK` 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-YCK 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 YCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data

polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

## Error handling

-----

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on `stderr`, followed by `exit()`. You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file `example.c` illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

- \* Fatal errors: the library cannot continue.
- \* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
- \* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (`jerror.c`) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling `jpeg_std_error()` as usual, but then overriding some of the method pointers in the `jpeg_error_mgr` struct, as illustrated by `example.c`.

All of the error handling routines will receive a pointer to the JPEG object (a `j_common_ptr` which points to either a `jpeg_compress_struct` or a `jpeg_decompress_struct`; if you need to tell which, test the `is_decompressor` field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the `jpeg_error_mgr` struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see `example.c` for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client\_data" in each JPEG object, which the application can also use to find related data. The library does not touch `client_data` at all.)

The individual methods that you might wish to override are:

```
error_exit (j_common_ptr cinfo)
```

Receives control for a fatal error. Information sufficient to generate the error message has been stored in `cinfo->err`; call `output_message` to display it. Control must NOT return to the caller; generally this routine will `exit()` or `longjmp()` somewhere. Typically you would override this routine to get rid of the `exit()` default behavior. Note that if you continue processing, you should clean up the JPEG object with `jpeg_abort()` or `jpeg_destroy()`.

`output_message (j_common_ptr cinfo)`

Actual output of any JPEG message. Override this to send messages somewhere other than `stderr`. Note that this method does not know how to generate a message, only where to send it.

`format_message (j_common_ptr cinfo, char * buffer)`

Constructs a readable error message string based on the error info stored in `cinfo->err`. This method is called by `output_message`. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

`emit_message (j_common_ptr cinfo, int msg_level)`

Decide whether or not to emit a warning or trace message; if so, calls `output_message`. The main reason for overriding this method would be to abort on warnings. `msg_level` is -1 for warnings, 0 and up for trace messages.

Only `error_exit()` and `emit_message()` are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field `err->jpeg_message_table`. The messages are numbered from 0 to `err->last_jpeg_message`, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See `jerror.h` for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer `err->addon_message_table` and the message numbers `err->first_addon_message` and `err->last_addon_message`. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications `cjpeg/djpeg` for an example of using addon messages (the addon messages are defined in `cderror.h`).

Actual invocation of the error handler is done via macros defined in `jerror.h`:

`ERREXITn(...)` for fatal errors

WARNMSn(...) for corrupt-data warnings

TRACEMSn(...) for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the error\_exit() or emit\_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

#### Compressed data handling (source and destination managers)

-----

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;    /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty\_output\_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address

and total size in private fields not visible to the library.

A data destination manager provides three methods:

`init_destination (j_compress_ptr cinfo)`

Initialize destination. This is called by `jpeg_start_compress()` before any data is actually written. It must initialize `next_output_byte` and `free_in_buffer`. `free_in_buffer` must be initialized to a positive value.

`empty_output_buffer (j_compress_ptr cinfo)`

This is called whenever the buffer has filled (`free_in_buffer` reaches zero). In typical applications, it should write out the \*entire\* buffer (use the saved start address and buffer length; ignore the current state of `next_output_byte` and `free_in_buffer`). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. `free_in_buffer` must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

`term_destination (j_compress_ptr cinfo)`

Terminate destination --- called by `jpeg_finish_compress()` after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either `next_output_byte` or `free_in_buffer` to determine how much data is in the buffer.

`term_destination()` is NOT called by `jpeg_abort()` or `jpeg_destroy()`. If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a `jpeg_destination_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_dest()` or `jpeg_mem_dest()` routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;      /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's `fill_input_buffer` method must reset the pointer and

count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

`init_source (j_decompress_ptr cinfo)`

Initialize source. This is called by `jpeg_read_header()` before any data is actually read. Unlike `init_destination()`, it may leave `bytes_in_buffer` set to 0 (in which case a `fill_input_buffer()` call will occur immediately).

`fill_input_buffer (j_decompress_ptr cinfo)`

This is called whenever `bytes_in_buffer` has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of `next_input_byte` and `bytes_in_buffer`), reset the pointer & count to the start of the buffer, and return `TRUE` indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. `bytes_in_buffer` **MUST** be set to a positive value if `TRUE` is returned. A `FALSE` return should only be used when I/O suspension is desired (this mode is discussed in the next section).

`skip_input_data (j_decompress_ptr cinfo, long num_bytes)`

Skip `num_bytes` worth of data. The buffer pointer and count should be advanced over `num_bytes` input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. `bytes_in_buffer` may be zero on return. A zero or negative skip count should be treated as a no-op.

`resync_to_restart (j_decompress_ptr cinfo, int desired)`

This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, `jpeg_resync_to_restart()`. However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the `read_restart_marker()` and `jpeg_resync_to_restart()` routines in `jdmarker.c` if you think you'd like to implement your own resync procedure.

`term_source (j_decompress_ptr cinfo)`

Terminate source --- called by `jpeg_finish_decompress()` after all data has been read. Often a no-op.



For both `fill_input_buffer()` and `skip_input_data()`, there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via `ERREXIT()` or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. `jdatasrc.c` illustrates the recommended error recovery behavior.

`term_source()` is NOT called by `jpeg_abort()` or `jpeg_destroy()`. If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a `jpeg_source_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_src()` or `jpeg_mem_src()` routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in `jdatasrc.c` and `jdatadst.c`.

#### I/O suspension

-----

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the `empty_output_buffer()` or `fill_input_buffer()` routine is a no-op, merely returning `FALSE` to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an `empty_output_buffer()` routine that returns `FALSE`; typically it will not do anything else. This will cause the compressor to return to the caller of `jpeg_write_scanlines()`, with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call `jpeg_write_scanlines()` again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although `empty_output_buffer()` is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of `next_output_byte/free_in_buffer`. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call `jpeg_write_scanlines()` unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

- \* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
- \* When you call `jpeg_finish_compress()`, there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling `jpeg_finish_compress()`.

A more significant restriction is that `jpeg_finish_compress()` cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during `jpeg_finish_compress()`, which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a `fill_input_buffer()` routine that simply returns `FALSE` (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

- \* `jpeg_read_header()`: will return `JPEG_SUSPENDED`.
- \* `jpeg_start_decompress()`: will return `FALSE`, rather than its usual `TRUE`.
- \* `jpeg_read_scanlines()`: will return the number of scanlines already completed (possibly 0).
- \* `jpeg_finish_decompress()`: will return `FALSE`, rather than its usual `TRUE`.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of `jpeg_read_scanlines()`, increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When `fill_input_buffer()` is called, `next_input_byte/bytes_in_buffer` point to the current restart point, which is where the decompressor will backtrack to if `FALSE` is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The `skip_input_data()` source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement `bytes_in_buffer` to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then `skip_input_data()` must set `bytes_in_buffer` to zero and record the additional skip distance somewhere else. The decompressor will immediately call `fill_input_buffer()`, which should return `FALSE`, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within `fill_input_buffer()`; the latter is probably more efficient. If `fill_input_buffer()` knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return `TRUE` just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling `skip_input_data()`. In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on `skip_input_data`'s shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having `empty_output_buffer()` or `fill_input_buffer()` set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when `fill_input_buffer()` is called, the current pointer & count indicate the backtrack restart point. Since `fill_input_buffer()` will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to `fill_input_buffer()` occurs in the same library call, and no additional input data is available, so `fill_input_buffer` must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then \*the correct restart point is the saved position in the prior buffer\*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a `skip_input_data()` call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when `fill_input_buffer()` is called, move any unconsumed data (beyond the current pointer/count) down to

the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

### Progressive JPEG support

-----

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

### Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan\_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg\_simple\_progression() helper routine to create a

recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan\_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg\_write\_scanlines() is called, and will emit all the requested scans during jpeg\_finish\_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg\_finish\_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

#### Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg\_start\_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg\_start\_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

#### Buffered-image mode

-----

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
```

```

cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output() /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output() /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to `jpeg_start_output()` indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and `jpeg_finish_output()` advances to the next scan or end-of-image marker (hence `input_scan_number` will be incremented by the time control arrives back at `jpeg_start_output()`). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the `jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()` sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call `jpeg_finish_decompress()` to release

the buffered image (or just use `jpeg_destroy_decompress()`).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine `jpeg_consume_input()`.

The return value is one of the following:

`JPEG_REACHED_SOS`: reached an SOS marker (the start of a new scan)

`JPEG_REACHED_EOI`: reached the EOI marker (end of image)

`JPEG_ROW_COMPLETED`: completed reading one MCU row of compressed data

`JPEG_SCAN_COMPLETED`: completed reading last MCU row of current scan

`JPEG_SUSPENDED`: suspended before completing any of the above

(`JPEG_SUSPENDED` can occur only if a suspending data source is used.) This

routine can be called at any time after initializing the JPEG object. It

reads some additional data and returns when one of the indicated significant

events occurs. (If called after the EOI marker is reached, it will

immediately return `JPEG_REACHED_EOI` without attempting to read more data.)

The library's output processing will automatically call `jpeg_consume_input()`

whenever the output processing overtakes the input; thus, simple lockstep

display requires no direct calls to `jpeg_consume_input()`. But by adding

calls to `jpeg_consume_input()`, you can absorb data in advance of what is

being displayed. This has two benefits:

- \* You can limit buildup of unprocessed data in your input buffer.
- \* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to

`jpeg_consume_input()` with your display operations and any other processing

you may be doing. To avoid wasting cycles due to backtracking, it's best to

call `jpeg_consume_input()` only after a hundred or so new bytes have arrived.

This is discussed further under "I/O suspension", above. (Note: the JPEG

library currently is not thread-safe. You must not call `jpeg_consume_input()`

from one thread of control if a different library routine is working on the

same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available

before you start a new output pass, you may as well skip the output pass

corresponding to the completed scan. This occurs for free if you pass

`cinfo.input_scan_number` as the target scan number to `jpeg_start_output()`.

The `input_scan_number` field is simply the index of the scan currently being

consumed by the input processor. You can ensure that this is up-to-date by

emptying the input buffer just before calling `jpeg_start_output()`: call

`jpeg_consume_input()` repeatedly until it returns `JPEG_SUSPENDED` or

`JPEG_REACHED_EOI`.

The target scan number passed to `jpeg_start_output()` is saved in the

`cinfo.output_scan_number` field. The library's output processing calls

`jpeg_consume_input()` whenever the current input scan number and row within



that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what `jpeg_start_decompress()` does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, `jpeg_consume_input()` will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
rather than quitting as soon as jpeg_input_complete() returns TRUE. This
```

arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the `JPEG_REACHED_EOI` return code from `jpeg_consume_input()`, or equivalently by testing `jpeg_input_complete()`.) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call `jpeg_finish_output()` and then start a new pass with `jpeg_start_output()`.

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting `JPEG_REACHED_SOS` returns and/or examining `cinfo.input_scan_number`. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call `jpeg_consume_input()` until it returns `JPEG_REACHED_SOS` or `JPEG_REACHED_EOI`. Or just use the next higher number as the target scan for `jpeg_start_output()`; but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, `jpeg_start_decompress()` never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

- \* `jpeg_start_output()` performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
- \* `jpeg_read_scanlines()`, as always, returns the number of scanlines that it was able to produce before suspending.
- \* `jpeg_finish_output()` will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if `jpeg_consume_input()` has already reached the end of the file or a SOS marker beyond the target output scan.)
- \* `jpeg_finish_decompress()` will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling `jpeg_input_complete()`).

`jpeg_start_output()`, `jpeg_finish_output()`, and `jpeg_finish_decompress()` all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after `jpeg_start_decompress()` is called:

- \* `dct_method` can be changed before each call to `jpeg_start_output()`. For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
- \* `dither_mode` can be changed before each call to `jpeg_start_output()`; of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial `max_memory_to_use` specification to be exceeded, which in the worst case would result in an out-of-memory failure.
- \* `do_block_smoothing` can be changed before each call to `jpeg_start_output()`. This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
- \* Color quantization mode can be changed under the rules described below.

You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display.

The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.  
Selected by `cinfo.two_pass_quantize = FALSE` and `cinfo.colormap = NULL`.
  2. Single-pass quantization to an application-supplied colormap.  
Selected by setting `cinfo.colormap` to point to the colormap (the value of `two_pass_quantize` is ignored); also set `cinfo.actual_number_of_colors`.
  3. Two-pass quantization to a colormap chosen specifically for the image.  
Selected by `cinfo.two_pass_quantize = TRUE` and `cinfo.colormap = NULL`.  
(This is the default setting selected by `jpeg_read_header`, but it is probably NOT what you want for the first pass of progressive display!)
- These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

**IMPORTANT:** because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call `jpeg_start_decompress()`. (If we did not require this, the `max_memory_to_use` setting would be a complete fiction.)

You do this by setting one or more of these three `cinfo` fields to TRUE:

`enable_1pass_quant` Fixed color cube colormap  
`enable_external_quant` Externally-supplied colormap  
`enable_2pass_quant` Two-pass custom colormap

All three are initialized FALSE by `jpeg_read_header()`. But `jpeg_start_decompress()` automatically sets TRUE the one selected by the current `two_pass_quantize` and `colormap` settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at `jpeg_start_decompress()` time, you can change to any enabled quantization method by setting `two_pass_quantize` and `colormap` properly just before calling `jpeg_start_output()`. The following special rules apply:

1. You must explicitly set `cinfo.colormap` to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call `jpeg_new_colormap()` after setting `cinfo.colormap`.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because `cinfo.colormap` will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to

do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during `jpeg_start_output()`, not during `jpeg_start_decompress()`.

When using two-pass quantization, `jpeg_start_output()` makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, `jpeg_start_output()` will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a `FALSE` return from `jpeg_start_output()` under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which `jpeg_start_output()` will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling `jpeg_has_multiple_scans()`, which will return a correct result at any time after `jpeg_read_header()` completes.

It is also worth noting that when you use `jpeg_consume_input()` to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager `jmemnobs.c` if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that `max_memory_to_use` is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten 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":

```
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set `cinfo.quant_tbl_ptrs[n]` to point directly at a constant `JQUANT_TBL` object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The `jpeg_read_header()` call is



sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

```
create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);
```

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg\_read\_header(): it will be JPEG\_HEADER\_OK if an image was found, JPEG\_HEADER\_TABLES\_ONLY if only tables were found. (A third return value, JPEG\_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg\_read\_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg\_start\_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg\_read\_header() ... jpeg\_finish\_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term\_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg\_start\_compress().

#### Special markers

-----

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard.

COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling `jpeg_write_marker()` after `jpeg_start_compress()` and before the first call to `jpeg_write_scanlines()`. When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG\_COM" for COM or "JPEG\_APP0 + n" for APPn. (Actually, `jpeg_write_marker` will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by `comment_text`:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call `jpeg_write_m_header()` followed by multiple calls to `jpeg_write_m_byte()`. If you do it this way, it's your responsibility to call `jpeg_write_m_byte()` exactly the number of times given in the length parameter to `jpeg_write_m_header()`. (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set `cinfo.JFIF_minor_version = 2` so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling `jpeg_read_header()`, because the markers of interest will typically be near the head of the file and so will be scanned by `jpeg_read_header`. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call `jpeg_save_markers(cinfo, marker_code, length_limit)` where `marker_code` is the marker type to save, `JPEG_COM` or `JPEG_APP0+n`. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than `length_limit` data bytes, only `length_limit` bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set `length_limit` to `0xFFFF`; that is enough since marker lengths are only 16 bits. As a special case, setting `length_limit` to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After `jpeg_read_header()` completes, you can examine the special markers by following the `cinfo->marker_list` pointer chain. All the special markers in

the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed `length_limit` for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which `jpeg_read_header` stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing `jpeg_read_header`, to ensure that the `max_memory_to_use` setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call `jpeg_finish_decompress` or `jpeg_abort`, at which point the memory is freed and the list is set to empty. (`jpeg_destroy` also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by `malloc()` limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling `jpeg_set_marker_processor()`. A marker processor routine must have the signature

```
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in `cinfo->unread_marker`. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in `jdmarker.c` for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling `jpeg_save_markers()`; that method doesn't interfere with the library's own processing of these markers.)

`jpeg_set_marker_processor()` and `jpeg_save_markers()` are mutually exclusive  
--- if you call one it overrides any previous call to the other, for the  
particular marker type specified.

A simple example of an external COM processor can be found in `djpeg.c`.  
Also, see `jpegtran.c` for an example of using `jpeg_save_markers`.

#### Raw (downsampled) image data

-----

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set `jpeg_color_space = in_color_space` (or `jpeg_color_space = out_color_space` for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. Before calling `jpeg_start_compress()`, you must do the following:

- \* Set `cinfo->raw_data_in` to TRUE. (It is set FALSE by `jpeg_set_defaults()`.)  
This notifies the library that you will be supplying raw data.
- \* Ensure `jpeg_color_space` is correct --- an explicit `jpeg_set_colorspace()`

call is a good idea. Note that since color conversion is bypassed, `in_color_space` is ignored, except that `jpeg_set_defaults()` uses it to choose the default `jpeg_color_space` setting.

\* Ensure the sampling factors, `cinfo->comp_info[i].h_samp_factor` and `cinfo->comp_info[i].v_samp_factor`, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. The two routines work similarly except that `jpeg_write_raw_data` takes a `JSAMPIMAGE` data array rather than `JSAMPARRAY`. The scanlines count passed to and returned from `jpeg_write_raw_data` is measured in terms of the component with the largest `v_samp_factor`.

`jpeg_write_raw_data()` processes one MCU row per call, which is to say `v_samp_factor*DCTSIZE` sample rows of each component. The passed `num_lines` value must be at least `max_v_samp_factor*DCTSIZE`, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the 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_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

```
-----
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\_SHORT\_EXTERNAL\_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX\_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int.

You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx\_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg\_std\_message\_table[]) from jerror.c, and alter format\_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

#### Portability considerations

-----

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that

- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need

to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select\_file\_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED\_SHORT\_EXTERNAL\_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors

-----

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/libjpeg.txt  
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* rdjpgcom.c
```

```
*
```

```
* Copyright (C) 1994-1997, Thomas G. Lane.
```

```
* Modified 2009 by Bill Allombert, Guido Vollbeding.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

```
*
```

```
* This file contains a very simple stand-alone application that displays
```

```
* the text in COM (comment) markers in a JFIF file.
```

```
* This may be useful as an example of the minimum logic needed to parse
```

```
* JPEG markers.
```

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdjpgcom.c  
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* jmorecfg.h
```

```
*
```

```
* This file was part of the Independent JPEG Group's software:
```

```
* Copyright (C) 1991-1997, Thomas G. Lane.
```

```
* Modifications:
```

```
* Copyright (C) 2009, 2011, D. R. Commander.
```



\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains additional configuration options that customize the  
\* JPEG software for special applications or support machine-dependent  
\* optimizations. Most users will not need to touch this file.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmorecfg.h

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

/\*

\* 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](mailto:aflesler(at)gmail(dot)com)

\* Licensed under GPL license (<http://www.opensource.org/licenses/gpl-license.php>).

\* Date: 2/8/2008

\* @author Ariel Flesler

\* @version 1.3.2

\*/

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/doc/html/jquery.js
```

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

```
/*
```

```
* jidctred.c
```

```
*
```

```
* Copyright (C) 1994-1998, Thomas G. Lane.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

```
*
```

```
* This file contains inverse-DCT routines that produce reduced-size output:
```

```
* either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
```

```
*
```

```
* The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
```

```
* algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
```

```
* with an 8-to-4 step that produces the four averages of two adjacent outputs
```

```
* (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
```

```
* These steps were derived by computing the corresponding values at the end
```

```
* of the normal LL&M code, then simplifying as much as possible.
```

```
*
```

```
* 1x1 is trivial: just take the DC coefficient divided by 8.
```

```
*
```

```
* See jidctint.c for additional comments.
```

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctred.c
```

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

```
/*
```

```
* rdrle.c
```

```
*
```

```
* Copyright (C) 1991-1996, Thomas G. Lane.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

```
*
```

```
* This file contains routines to read input images in Utah RLE format.
```

```
* The Utah Raster Toolkit library is required (version 3.1 or later).
```

```
*
```

```
* These routines may need modification for non-Unix environments or
```

```
* specialized applications. As they stand, they assume input from
```

```
* an ordinary stdio stream. They further assume that reading begins
```

```
* at the start of the file; start_input may need work if the
```

```
* user interface has already read some data (e.g., to determine that
```

```
* the file is indeed RLE format).
```

\*  
\* Based on code contributed by Mike Lijewski,  
\* with updates from Robert Hutchinson.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdrle.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* jpegcomp.h  
\*  
\* Copyright (C) 2010, D. R. Commander  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* JPEG compatibility macros  
\* These declarations are considered internal to the JPEG library; most  
\* applications using the library shouldn't need to include this file.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegcomp.h  
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reasons for developing this free software was to help force convergence on

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/README  
No license file was found, but licenses were detected in source scan.

/\*  
\* jdphuff.c  
\*  
\* Copyright (C) 1995-1997, Thomas G. Lane.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains Huffman entropy decoding routines for progressive JPEG.  
\*  
\* Much of the complexity here has to do with supporting input suspension.

- \* If the data source module demands suspension, we want to be able to back
- \* up to the start of the current MCU. To do this, we copy state variables
- \* into local working storage, and update them back to the permanent
- \* storage only upon successful completion of an MCU.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdphuff.c  
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/\*

\* jcmarker.c

\*

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\*

\* This file contains routines to write JPEG datastream markers.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmarker.c  
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/\*

\* jdsample.c

\*

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\* Modifications:

\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

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\*

\* 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

\* Digital Image Warping, George Wolberg, 1990.

\* Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdsample.c

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Found in path(s):

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\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJExample.java

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-

```
1.2.90/java/org/libjpegturbo/turbojpeg/TJ.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/java/TJUnitTest.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg-jni.c
```

## 1.353 jackson-dataformat-yaml 2.9.6

### 1.353.1 Available under license :

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```
http://www.apache.org/licenses/LICENSE-2.0
# 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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## 1.354 keyutils 1.5.8-3.el7

## 1.354.1 Available under license :

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Version 2, June 1991

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Version 2.1, February 1999

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## 1.355 rpm 4.11.3-40.el7

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```

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```
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```

```
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## 1.357 centos-release 7-7.1908.0.el7.centos

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from

his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:

The Red Hat developers, without whom CentOS would look very different

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# 1.360 procps 3.3.10

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## 1.361 reflections 0.9.11

## 1.362 git 1.8.3.1 21.e17\_7

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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,  
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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/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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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting

Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1

is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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## 1.370 libasyncons 0.8-7.el7

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\*/

# 1.372 systemd-shim 10

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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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\*/

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numbered 2 because it goes with version 2 of the ordinary GPL.]

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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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## 1.378 springfoxswagger 2.8.0

# 1.379 jackson-dataformat-smile 2.9.6

## 1.380 sto-trust 7-20181115212006

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

That's all there is to it!

## 1.381 diffutils 3.3 5.el7

### 1.381.1 Available under license :

From RPM File Metadata:GPLv3+  
/\* diff - compare files line by line

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along with this program. If not, see <<http://www.gnu.org/licenses/>>. \*/

```
#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <progrname.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>

/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"

#define AUTHORS \
  proper_name ("Paul Eggert"), \
  proper_name ("Mike Haertel"), \
  proper_name ("David Hayes"), \
  proper_name ("Richard Stallman"), \
  proper_name ("Len Tower")

#ifndef GUTTER_WIDTH_MINIMUM
# define GUTTER_WIDTH_MINIMUM 3
#endif
```

```

struct regexp_list
{
    char *regexps; /* chars representing disjunction of the regexps */
    size_t len; /* chars used in 'regexps' */
    size_t size; /* size malloc'ed for 'regexps'; 0 if not malloc'ed */
    bool multiple_regexps; /* Does 'regexps' represent a disjunction? */
    struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories
   recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */
static struct regexp_list function_regexp_list;

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

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary).
   On POSIX hosts, this has no effect. */
static bool binary;
#else
enum { binary = true };
#endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty
   (--unidirectional-new-file). */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s).
   Normally nothing is output when that happens. */
static bool report_identical_files;

```

```

static char const shortopts[] =
"0123456789abBcC:dD:eEfF:hHiI:lL:nNpPqrsS:tTuU:vwW:x:X:yZ";

/* Values for long options that do not have single-letter equivalents. */
enum
{
    BINARY_OPTION = CHAR_MAX + 1,
    FROM_FILE_OPTION,
    HELP_OPTION,
    HORIZON_LINES_OPTION,
    IGNORE_FILE_NAME_CASE_OPTION,
    INHIBIT_HUNK_MERGE_OPTION,
    LEFT_COLUMN_OPTION,
    LINE_FORMAT_OPTION,
    NO_DEREFERENCE_OPTION,
    NO_IGNORE_FILE_NAME_CASE_OPTION,
    NORMAL_OPTION,
    SDIFF_MERGE_ASSIST_OPTION,
    STRIP_TRAILING_CR_OPTION,
    SUPPRESS_BLANK_EMPTY_OPTION,
    SUPPRESS_COMMON_LINES_OPTION,
    TABSIZE_OPTION,
    TO_FILE_OPTION,

    /* These options must be in sequence. */
    UNCHANGED_LINE_FORMAT_OPTION,
    OLD_LINE_FORMAT_OPTION,
    NEW_LINE_FORMAT_OPTION,

    /* These options must be in sequence. */
    UNCHANGED_GROUP_FORMAT_OPTION,
    OLD_GROUP_FORMAT_OPTION,
    NEW_GROUP_FORMAT_OPTION,
    CHANGED_GROUP_FORMAT_OPTION
};

static char const group_format_option[][sizeof "--unchanged-group-format"] =
{
    "--unchanged-group-format",
    "--old-group-format",
    "--new-group-format",
    "--changed-group-format"
};

static char const line_format_option[][sizeof "--unchanged-line-format"] =
{
    "--unchanged-line-format",
    "--old-line-format",

```

```

"--new-line-format"
};

static struct option const longopts[] =
{
{"binary", 0, 0, BINARY_OPTION},
{"brief", 0, 0, 'q'},
{"changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION},
{"context", 2, 0, 'C'},
{"ed", 0, 0, 'e'},
{"exclude", 1, 0, 'x'},
{"exclude-from", 1, 0, 'X'},
{"expand-tabs", 0, 0, 't'},
{"forward-ed", 0, 0, 'f'},
{"from-file", 1, 0, FROM_FILE_OPTION},
{"help", 0, 0, HELP_OPTION},
{"horizon-lines", 1, 0, HORIZON_LINES_OPTION},
{"ifdef", 1, 0, 'D'},
{"ignore-all-space", 0, 0, 'w'},
{"ignore-blank-lines", 0, 0, 'B'},
{"ignore-case", 0, 0, 'i'},
{"ignore-file-name-case", 0, 0, IGNORE_FILE_NAME_CASE_OPTION},
{"ignore-matching-lines", 1, 0, 'T'},
{"ignore-space-change", 0, 0, 'b'},
{"ignore-tab-expansion", 0, 0, 'E'},
{"ignore-trailing-space", 0, 0, 'Z'},
{"inhibit-hunk-merge", 0, 0, INHIBIT_HUNK_MERGE_OPTION},
{"initial-tab", 0, 0, 'T'},
{"label", 1, 0, 'L'},
{"left-column", 0, 0, LEFT_COLUMN_OPTION},
{"line-format", 1, 0, LINE_FORMAT_OPTION},
{"minimal", 0, 0, 'd'},
{"new-file", 0, 0, 'N'},
{"new-group-format", 1, 0, NEW_GROUP_FORMAT_OPTION},
{"new-line-format", 1, 0, NEW_LINE_FORMAT_OPTION},
{"no-dereference", 0, 0, NO_DEREFERENCE_OPTION},
{"no-ignore-file-name-case", 0, 0, NO_IGNORE_FILE_NAME_CASE_OPTION},
{"normal", 0, 0, NORMAL_OPTION},
{"old-group-format", 1, 0, OLD_GROUP_FORMAT_OPTION},
{"old-line-format", 1, 0, OLD_LINE_FORMAT_OPTION},
{"paginate", 0, 0, 'I'},
{"rcs", 0, 0, 'n'},
{"recursive", 0, 0, 'r'},
{"report-identical-files", 0, 0, 's'},
{"sdiff-merge-assist", 0, 0, SDIFF_MERGE_ASSIST_OPTION},
{"show-c-function", 0, 0, 'p'},
{"show-function-line", 1, 0, 'F'},
{"side-by-side", 0, 0, 'y'},

```



```

{"speed-large-files", 0, 0, 'H'},
{"starting-file", 1, 0, 'S'},
{"strip-trailing-cr", 0, 0, STRIP_TRAILING_CR_OPTION},
{"suppress-blank-empty", 0, 0, SUPPRESS_BLANK_EMPTY_OPTION},
{"suppress-common-lines", 0, 0, SUPPRESS_COMMON_LINES_OPTION},
{"tabsize", 1, 0, TABSIZE_OPTION},
{"text", 0, 0, 'a'},
{"to-file", 1, 0, TO_FILE_OPTION},
{"unchanged-group-format", 1, 0, UNCHANGED_GROUP_FORMAT_OPTION},
{"unchanged-line-format", 1, 0, UNCHANGED_LINE_FORMAT_OPTION},
{"unidirectional-new-file", 0, 0, 'P'},
{"unified", 2, 0, 'U'},
{"version", 0, 0, 'v'},
{"width", 1, 0, 'W'},
{0, 0, 0, 0}
};

```

/\* Return a string containing the command options with which diff was invoked.

Spaces appear between what were separate ARGV-elements.

There is a space at the beginning but none at the end.

If there were no options, the result is an empty string.

Arguments: OPTIONVEC, a vector containing separate ARGV-elements, and COUNT, the length of that vector. \*/

```

static char *
option_list (char **optionvec, int count)
{
    int i;
    size_t size = 1;
    char *result;
    char *p;

    for (i = 0; i < count; i++)
        size += 1 + shell_quote_length (optionvec[i]);

    p = result = xmalloc (size);

    for (i = 0; i < count; i++)
    {
        *p++ = ' ';
        p = shell_quote_copy (p, optionvec[i]);
    }

    *p = '\0';
    return result;
}

```

```

/* Return an option value suitable for add_exclude. */

static int
exclude_options (void)
{
    return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

int
main (int argc, char **argv)
{
    int exit_status = EXIT_SUCCESS;
    int c;
    int i;
    int prev = -1;
    int ocontext = -1;
    bool explicit_context = false;
    size_t width = 0;
    bool show_c_function = false;
    char const *from_file = NULL;
    char const *to_file = NULL;
    uintmax_t numval;
    char *numend;

    /* Do our initializations. */
    exit_failure = EXIT_TROUBLE;
    initialize_main (&argc, &argv);
    set_program_name (argv[0]);
    setlocale (LC_ALL, "");
    bindtextdomain (PACKAGE, LOCALEDIR);
    textdomain (PACKAGE);
    c_stack_action (0);
    function_regexp_list.buf = &function_regexp;
    ignore_regexp_list.buf = &ignore_regexp;
    re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
    excluded = new_exclude ();

    /* Decode the options. */

    while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
    {
        switch (c)
        {
        case 0:
            break;

        case '0':

```

```

case '1':
case '2':
case '3':
case '4':
case '5':
case '6':
case '7':
case '8':
case '9':
    if (! ISDIGIT (prev))
        ocontext = c - '0';
    else if (LIN_MAX / 10 < ocontext
        || ((ocontext = 10 * ocontext + c - '0') < 0))
        ocontext = LIN_MAX;
    break;

case 'a':
    text = true;
    break;

case 'b':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space = IGNORE_SPACE_CHANGE;
    break;

case 'Z':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TRAILING_SPACE;
    break;

case 'B':
    ignore_blank_lines = true;
    break;

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

```

```

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

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

case 'd':
minimal = true;
break;

case 'D':
specify_style (OUTPUT_IFDEF);
{
    static char const C_ifdef_group_formats[] =
        "%s=%c#ifndef %s\n%>#endif /* ! %s *\n%c#ifdef %s\n%>#endif /* %s *\n%c#ifndef %s\n%>#else
/* %s *\n%>#endif /* %s *\n";
    char *b = xmalloc (sizeof C_ifdef_group_formats
        + 7 * strlen (optarg) - 14 /* 7*"%" */
        - 8 /* 5*"%" + 3*"%" */);
    sprintf (b, C_ifdef_group_formats,
        0,
        optarg, optarg, 0,
        optarg, optarg, 0,
        optarg, optarg, optarg);
    for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
        {
specify_value (&group_format[i], b, "-D");
b += strlen (b) + 1;
        }
    }
break;

case 'e':
specify_style (OUTPUT_ED);
break;

case 'E':
if (ignore_white_space < IGNORE_SPACE_CHANGE)
    ignore_white_space |= IGNORE_TAB_EXPANSION;
break;

```

```

case 'f':
    specify_style (OUTPUT_FORWARD_ED);
    break;

case 'F':
    add_regexp (&function_regexp_list, optarg);
    break;

case 'h':
    /* Split the files into chunks for faster processing.
       Usually does not change the result.

       This currently has no effect. */
    break;

case 'H':
    speed_large_files = true;
    break;

case 'i':
    ignore_case = true;
    break;

case 'I':
    add_regexp (&ignore_regexp_list, optarg);
    break;

case 'l':
    if (!pr_program[0])
        try_help ("pagination not supported on this host", NULL);
    paginate = true;
#ifdef SIGCHLD
    /* Pagination requires forking and waiting, and
       System V fork+wait does not work if SIGCHLD is ignored. */
    signal (SIGCHLD, SIG_DFL);
#endif
    break;

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

case 'n':

```

```
    specify_style (OUTPUT_RCS);
    break;

case 'N':
    new_file = true;
    break;

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

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;

case 'T':
    initial_tab = true;
    break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
    break;

case 'v':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
```

```

    AUTHORS, (char *) NULL);
check_stdout ();
return EXIT_SUCCESS;

case 'w':
    ignore_white_space = IGNORE_ALL_SPACE;
    break;

case 'x':
    add_exclude (excluded, optarg, exclude_options ());
    break;

case 'X':
    if (add_exclude_file (add_exclude, excluded, optarg,
        exclude_options (), '\n'))
        pfatal_with_name (optarg);
    break;

case 'y':
    specify_style (OUTPUT_SDIFF);
    break;

case 'W':
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid width '%s'", optarg);
    if (width != numval)
    {
        if (width)
            fatal ("conflicting width options");
        width = numval;
    }
    break;

case BINARY_OPTION:
#ifdef O_BINARY
    binary = true;
    if (! isatty (STDOUT_FILENO))
        set_binary_mode (STDOUT_FILENO, O_BINARY);
#endif
    break;

case FROM_FILE_OPTION:
    specify_value (&from_file, optarg, "--from-file");
    break;

case HELP_OPTION:
    usage ();

```

```

check_stdout ();
return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (*numend)
        try_help ("invalid horizon length '%s'", optarg);
    horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
    break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
    break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
       compatibility. */
    break;

case LEFT_COLUMN_OPTION:
    left_column = true;
    break;

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

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
    break;

case NO_IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
    break;

case NORMAL_OPTION:
    specify_style (OUTPUT_NORMAL);
    break;

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

case STRIP_TRAILING_CR_OPTION:
    strip_trailing_cr = true;

```



```

break;

case SUPPRESS_BLANK_EMPTY_OPTION:
    suppress_blank_empty = true;
    break;

case SUPPRESS_COMMON_LINES_OPTION:
    suppress_common_lines = true;
    break;

case TABSIZE_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid tabsize '%s'", optarg);
    if (tabsize != numval)
    {
        if (tabsize)
            fatal ("conflicting tabsize options");
        tabsize = numval;
    }
    break;

case TO_FILE_OPTION:
    specify_value (&to_file, optarg, "--to-file");
    break;

case UNCHANGED_LINE_FORMAT_OPTION:
case OLD_LINE_FORMAT_OPTION:
case NEW_LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_LINE_FORMAT_OPTION;
    specify_value (&line_format[c], optarg, line_format_option[c]);
    break;

case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_GROUP_FORMAT_OPTION;
    specify_value (&group_format[c], optarg, group_format_option[c]);
    break;

default:
    try_help (NULL, NULL);
}

prev = c;
}

```

```

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

if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
{
    #if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \
        || defined HAVE_STRUCT_STAT_ST_SPARE1)
        time_format = "%Y-%m-%d %H:%M:%S.%N %z";
    #else
        time_format = "%Y-%m-%d %H:%M:%S %z";
    #endif
}
else
{
    /* See POSIX 1003.1-2001 for this format. */
    time_format = "%a %b %e %T %Y";
}

if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT
        || output_style == OUTPUT_UNIFIED)
    && (context < ocontext
        || (ocontext < context && ! explicit_context)))
    context = ocontext;

if (! tabsize)
    tabsize = 8;
if (! width)
    width = 130;

{
    /* Maximize first the half line width, and then the gutter width,
       according to the following constraints:

1. Two half lines plus a gutter must fit in a line.
2. If the half line width is nonzero:
    a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
    b. If tabs are not expanded to spaces,

```

a half line plus a gutter is an integral number of tabs,  
so that tabs in the right column line up. \*/

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

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

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

```
if (output_style == OUTPUT_IFDEF)
{
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
if (!line_format[i])
    line_format[i] = "%\n";
    if (!group_format[OLD])
group_format[OLD]
    = group_format[CHANGED] ? group_format[CHANGED] : "%<";
    if (!group_format[NEW])
group_format[NEW]
    = group_format[CHANGED] ? group_format[CHANGED] : "%>";
    if (!group_format[UNCHANGED])
group_format[UNCHANGED] = "%=";
    if (!group_format[CHANGED])
group_format[CHANGED] = concat (group_format[OLD],
    group_format[NEW], "");
}
```

```
no_diff_means_no_output =
(output_style == OUTPUT_IFDEF ?
    (!*group_format[UNCHANGED]
    || (STREQ (group_format[UNCHANGED], "%=")
    && !*line_format[UNCHANGED]))
    : (output_style != OUTPUT_SDIFF) | suppress_common_lines);
```

```
files_can_be_treated_as_binary =
(brief & binary
    & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr
    | (ignore_regexp_list.regexprs || ignore_white_space)));
```

```

switch_string = option_list (argv + 1, optind - 1);

if (from_file)
{
    if (to_file)
fatal ("--from-file and --to-file both specified");
    else
for (; optind < argc; optind++)
{
    int status = compare_files (NULL, from_file, argv[optind]);
    if (exit_status < status)
        exit_status = status;
}
}
else
{
    if (to_file)
for (; optind < argc; optind++)
{
    int status = compare_files (NULL, argv[optind], to_file);
    if (exit_status < status)
        exit_status = status;
}
    else
{
    if (argc - optind != 2)
    {
        if (argc - optind < 2)
try_help ("missing operand after '%s'", argv[argc - 1]);
        else
try_help ("extra operand '%s'", argv[optind + 2]);
    }

    exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
}
}

/* Print any messages that were saved up for last. */
print_message_queue ();

check_stdout ();
exit (exit_status);
return exit_status;
}

/* Append to REGLIST the regexp PATTERN. */

static void

```

```

add_regexp (struct regexp_list *reglist, char const *pattern)
{
    size_t patlen = strlen (pattern);
    char const *m = re_compile_pattern (pattern, patlen, reglist->buf);

    if (m != 0)
        error (0, 0, "%s: %s", pattern, m);
    else
        {
            char *regexps = reglist->regexps;
            size_t len = reglist->len;
            bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
            size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
            size_t size = reglist->size;

            if (size <= newlen)
            {
                if (!size)
                    size = 1;

                do size *= 2;
                while (size <= newlen);

                reglist->size = size;
                reglist->regexps = regexps = xrealloc (regexps, size);
            }
            if (multiple_regexps)
            {
                regexps[len++] = '\\';
                regexps[len++] = '|';
            }
            memcpy (regexps + len, pattern, patlen + 1);
        }
}

/* Ensure that REGLIST represents the disjunction of its regexps.
   This is done here, rather than earlier, to avoid O(N^2) behavior. */

static void
summarize_regexp_list (struct regexp_list *reglist)
{
    if (reglist->regexps)
        {
            /* At least one regexp was specified. Allocate a fastmap for it. */
            reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
            if (reglist->multiple_regexps)
                {
                    /* Compile the disjunction of the regexps.

```

```

    (If just one regexp was specified, it is already compiled.) */
    char const *m = re_compile_pattern (reglist->regexps, reglist->len,
        reglist->buf);
    if (m)
        error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
    }
    }
}

static void
try_help (char const *reason_msgid, char const *operand)
{
    if (reason_msgid)
        error (0, 0, _(reason_msgid), operand);
    error (EXIT_TROUBLE, 0, _("Try '%s --help' for more information."),
        program_name);
    abort ();
}

static void
check_stdout (void)
{
    if (ferror (stdout))
        fatal ("write failed");
    else if (fclose (stdout) != 0)
        pfatal_with_name (_("standard output"));
}

static char const * const option_help_msgid[] = {
    N_(" --normal          output a normal diff (the default)"),
    N_(" -q, --brief       report only when files differ"),
    N_(" -s, --report-identical-files report when two files are the same"),
    N_(" -c, -C NUM, --context[=NUM] output NUM (default 3) lines of copied context"),
    N_(" -u, -U NUM, --unified[=NUM] output NUM (default 3) lines of unified context"),
    N_(" -e, --ed           output an ed script"),
    N_(" -n, --rcs         output an RCS format diff"),
    N_(" -y, --side-by-side output in two columns"),
    N_(" -W, --width=NUM    output at most NUM (default 130) print columns"),
    N_(" --left-column      output only the left column of common lines"),
    N_(" --suppress-common-lines do not output common lines"),
    "",
    N_(" -p, --show-c-function show which C function each change is in"),
    N_(" -F, --show-function-line=RE show the most recent line matching RE"),
    N_(" --label LABEL      use LABEL instead of file name\n"
        "                      (can be repeated)"),
    "",
    N_(" -t, --expand-tabs   expand tabs to spaces in output"),
    N_(" -T, --initial-tab   make tabs line up by prepending a tab"),

```

```

N_(" --tabsize=NUM          tab stops every NUM (default 8) print columns"),
N_(" --suppress-blank-empty  suppress space or tab before empty output lines"),
N_("-l, --paginate          pass output through 'pr' to paginate it"),
"",
N_("-r, --recursive          recursively compare any subdirectories found"),
N_(" --no-dereference          don't follow symbolic links"),
N_("-N, --new-file            treat absent files as empty"),
N_(" --unidirectional-new-file  treat absent first files as empty"),
N_(" --ignore-file-name-case    ignore case when comparing file names"),
N_(" --no-ignore-file-name-case  consider case when comparing file names"),
N_("-x, --exclude=PAT         exclude files that match PAT"),
N_("-X, --exclude-from=FILE    exclude files that match any pattern in FILE"),
N_("-S, --starting-file=FILE   start with FILE when comparing directories"),
N_(" --from-file=FILE1         compare FILE1 to all operands;\n"
  "                             FILE1 can be a directory"),
N_(" --to-file=FILE2           compare all operands to FILE2;\n"
  "                             FILE2 can be a directory"),
"",
N_("-i, --ignore-case          ignore case differences in file contents"),
N_("-E, --ignore-tab-expansion  ignore changes due to tab expansion"),
N_("-Z, --ignore-trailing-space  ignore white space at line end"),
N_("-b, --ignore-space-change    ignore changes in the amount of white space"),
N_("-w, --ignore-all-space      ignore all white space"),
N_("-B, --ignore-blank-lines     ignore changes where lines are all blank"),
N_("-I, --ignore-matching-lines=RE  ignore changes where all lines match RE"),
"",
N_("-a, --text                  treat all files as text"),
N_(" --strip-trailing-cr        strip trailing carriage return on input"),
#if O_BINARY
N_(" --binary                  read and write data in binary mode"),
#endif
"",
N_("-D, --ifdef=NAME            output merged file with '#ifdef NAME' diffs"),
N_(" --GTYPE-group-format=GFMT  format GTYPE input groups with GFMT"),
N_(" --line-format=LFMT         format all input lines with LFMT"),
N_(" --LTYPE-line-format=LFMT   format LTYPE input lines with LFMT"),
N_(" These format options provide fine-grained control over the output\n"
  "   of diff, generalizing -D/--ifdef."),
N_(" LTYPE is 'old', 'new', or 'unchanged'.  GTYPE is LTYPE or 'changed'."),
N_(" GFMT (only) may contain:\n"
  "%< lines from FILE1\n"
  "%> lines from FILE2\n"
  "%= lines common to FILE1 and FILE2\n"
  "%-[[[WIDTH]][.PREC]]{doxX}LETTER printf-style spec for LETTER\n"
  "LETTERS are as follows for new group, lower case for old group:\n"
  "F first line number\n"
  "L last line number\n"
  "N number of lines = L-F+1\n"

```

```

    E F-1\n\
    M L+1\n\
    %(A=B?T:E) if A equals B then T else E"),
N_(" LFMT (only) may contain:\n\
    %L contents of line\n\
    %l contents of line, excluding any trailing newline\n\
    %[-][[WIDTH]][.[PREC]]{doxX}n printf-style spec for input line number"),
N_(" Both GFMT and LFMT may contain:\n\
    %% %\n\
    %c'C' the single character C\n\
    %c'\OOO' the character with octal code OOO\n\
    C the character C (other characters represent themselves)",
"",
N_("-d, --minimal      try hard to find a smaller set of changes"),
N_("--horizon-lines=NUM keep NUM lines of the common prefix and suffix"),
N_("--speed-large-files assume large files and many scattered small changes"),
"",
N_("--help           display this help and exit"),
N_("-v, --version      output version information and exit"),
"",
N_("FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR'."),
N_("If --from-file or --to-file is given, there are no restrictions on FILE(s)."),
N_("If a FILE is '-', read standard input."),
N_("Exit status is 0 if inputs are the same, 1 if different, 2 if trouble."),
0
};

```

```
static void
```

```
usage (void)
```

```
{
```

```
char const * const *p;
```

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

```
printf ("%s\n\n", _("Compare FILES line by line."));
```

```
fputs (_("\n
```

```
Mandatory arguments to long options are mandatory for short options too.\n\
```

```
"), stdout);
```

```
for (p = option_help_msgid; *p; p++)
```

```
{
```

```
if (!**p)
```

```
putchar ('\n');
```

```
else
```

```
{
```

```
char const *msg = _(*p);
```

```
char const *nl;
```

```
while ((nl = strchr (msg, '\n'))
```



```

    {
        int msglen = nl + 1 - msg;
        printf (" %.*s", msglen, msg);
        msg = nl + 1;
    }

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

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

/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
    if (output_style != style)
    {
        if (output_style != OUTPUT_UNSPECIFIED)
            try_help ("conflicting output style options", NULL);
        output_style = style;
    }
}

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

static void
set_mtime_to_now (struct stat *st)
{
    #ifdef STAT_TIMESPEC
        gettime (&STAT_TIMESPEC (st, st_mtim));
    #else
        struct timespec t;
        gettime (&t);
        st->st_mtime = t.tv_sec;
    #endif
}

```

```

# if defined STAT_TIMESPEC_NS
STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
# elif defined HAVE_STRUCT_STAT_ST_SPARE1
st->st_spare1 = t.tv_nsec / 1000;
# endif
#endif
}

/* Compare two files (or dirs) with parent comparison PARENT
and names NAME0 and NAME1.
(If PARENT is null, then the first name is just NAME0, etc.)
This is self-contained; it opens the files and closes them.

Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if
different, EXIT_TROUBLE if there is a problem opening them. */

static int
compare_files (struct comparison const *parent,
               char const *name0,
               char const *name1)
{
    struct comparison cmp;
#define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
    register int f;
    int status = EXIT_SUCCESS;
    bool same_files;
    char *free0;
    char *free1;

    /* If this is directory comparison, perhaps we have a file
       that exists only in one of the directories.
       If so, just print a message to that effect. */

    if (!(name0 && name1)
        || (unidirectional_new_file && name1)
        || new_file))
    {
        char const *name = name0 ? name0 : name1;
        char const *dir = parent->file[!name0].name;

        /* See POSIX 1003.1-2001 for this format. */
        message ("Only in %s: %s\n", dir, name);

        /* Return EXIT_FAILURE so that diff_dirs will return
           EXIT_FAILURE ("some files differ"). */
        return EXIT_FAILURE;
    }
}

```

```

memset (cmp.file, 0, sizeof cmp.file);
cmp.parent = parent;

/* cmp.file[f].desc markers */
#define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory) */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */

#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

/* Now record the full name of each file, including nonexistent ones. */

if (!name0)
    name0 = name1;
if (!name1)
    name1 = name0;

if (!parent)
{
    free0 = NULL;
    free1 = NULL;
    cmp.file[0].name = name0;
    cmp.file[1].name = name1;
}
else
{
    cmp.file[0].name = free0
= file_name_concat (parent->file[0].name, name0, NULL);
    cmp.file[1].name = free1
= file_name_concat (parent->file[1].name, name1, NULL);
}

/* Stat the files. */

for (f = 0; f < 2; f++)
{
    if (cmp.file[f].desc != NONEXISTENT)
    {
        if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
        {
            cmp.file[f].desc = cmp.file[0].desc;
            cmp.file[f].stat = cmp.file[0].stat;
        }
        else if (STREQ (cmp.file[f].name, "-"))
        {

```

```

    cmp.file[f].desc = STDIN_FILENO;
    if (binary && ! isatty (STDIN_FILENO))
set_binary_mode (STDIN_FILENO, O_BINARY);
    if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
cmp.file[f].desc = ERRNO_ENCODE (errno);
    else
{
    if (S_ISREG (cmp.file[f].stat.st_mode))
    {
        off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
        if (pos < 0)
cmp.file[f].desc = ERRNO_ENCODE (errno);
        else
cmp.file[f].stat.st_size =
        MAX (0, cmp.file[f].stat.st_size - pos);
    }

    /* POSIX 1003.1-2001 requires current time for
    stdin. */
    set_mtime_to_now (&cmp.file[f].stat);
}
}
else if ((no_dereference_symlinks
    ? lstat (cmp.file[f].name, &cmp.file[f].stat)
    : stat (cmp.file[f].name, &cmp.file[f].stat)
    != 0)
cmp.file[f].desc = ERRNO_ENCODE (errno);
}
}

/* Mark files as nonexistent as needed for -N and -P, if they are
inaccessible empty regular files (the kind of files that 'patch'
creates to indicate nonexistent backups), or if they are
top-level files that do not exist but their counterparts do
exist. */
for (f = 0; f < 2; f++)
    if ((new_file || (f == 0 && unidirectional_new_file))
&& (cmp.file[f].desc == UNOPENED
    ? (S_ISREG (cmp.file[f].stat.st_mode)
        && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
        && cmp.file[f].stat.st_size == 0)
    : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
|| cmp.file[f].desc == ERRNO_ENCODE (EBADF))
        && ! parent
        && (cmp.file[1 - f].desc == UNOPENED
|| cmp.file[1 - f].desc == STDIN_FILENO))))
        cmp.file[f].desc = NONEXISTENT;

```

```

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

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

if (status == EXIT_SUCCESS && !parent && DIR_P (0) != DIR_P (1))
    {
    /* If one is a directory, and it was specified in the command line,
    use the file in that dir with the other file's basename. */

    int fnm_arg = DIR_P (0);
    int dir_arg = 1 - fnm_arg;
    char const *fnm = cmp.file[fnm_arg].name;
    char const *dir = cmp.file[dir_arg].name;
    char const *filename = cmp.file[dir_arg].name = free0
= find_dir_file_pathname (dir, last_component (fnm));

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

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

if (status != EXIT_SUCCESS)
    {
    /* One of the files should exist but does not. */
    }
    else if (cmp.file[0].desc == NONEXISTENT

```

```

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

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

        if (parent && !recursive)
        {
            /* But don't compare dir contents one level down
            unless -r was specified.
            See POSIX 1003.1-2001 for this format. */
            message ("Common subdirectories: %s and %s\n",
            cmp.file[0].name, cmp.file[1].name);
        }
        else
status = diff_dirs (&cmp, compare_files);
    }
else if ((DIR_P (0) | DIR_P (1))
    || (parent
    && !((S_ISREG (cmp.file[0].stat.st_mode)
    || S_ISLNK (cmp.file[0].stat.st_mode)
    && (S_ISREG (cmp.file[1].stat.st_mode)
    || S_ISLNK (cmp.file[1].stat.st_mode))))))
    {
        if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
        {
            /* We have a subdirectory that exists only in one directory. */

            if ((DIR_P (0) | DIR_P (1))
                && recursive
                && (new_file
                || (unidirectional_new_file

```

```

    && cmp.file[0].desc == NONEXISTENT)))
status = diff_dirs (&cmp, compare_files);
else
{
    char const *dir;

    /* PARENT must be non-NULL here. */
    assert (parent);
    dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

    /* See POSIX 1003.1-2001 for this format. */
    message ("Only in %s: %s\n", dir, name0);

    status = EXIT_FAILURE;
}
}
else
{
    /* We have two files that are not to be compared. */

    /* See POSIX 1003.1-2001 for this format. */
    message5 ("File %s is a %s while file %s is a %s\n",
        file_label[0] ? file_label[0] : cmp.file[0].name,
        file_type (&cmp.file[0].stat),
        file_label[1] ? file_label[1] : cmp.file[1].name,
        file_type (&cmp.file[1].stat));

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

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

    for (f = 0; f < 2; f++)
    {
        link_value[f] = xreadlink (cmp.file[f].name);
        if (link_value[f] == NULL)
        {

```

```

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

    message5 ("File %s is a %s while file %s is a %s\n",
        file_label[0] ? file_label[0] : cmp.file[0].name,
        file_type (&cmp.file[0].stat),
        file_label[1] ? file_label[1] : cmp.file[1].name,
        file_type (&cmp.file[1].stat));

    /* This is a difference. */
    status = EXIT_FAILURE;
}
}
else if (files_can_be_treated_as_binary
    && S_ISREG (cmp.file[0].stat.st_mode)
    && S_ISREG (cmp.file[1].stat.st_mode)
    && cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
{
    message ("Files %s and %s differ\n",
        file_label[0] ? file_label[0] : cmp.file[0].name,
        file_label[1] ? file_label[1] : cmp.file[1].name);
    status = EXIT_FAILURE;
}
else
{
    /* Both exist and neither is a directory. */

    /* Open the files and record their descriptors. */

```



```

int oflags = O_RDONLY | (binary ? O_BINARY : 0);

if (cmp.file[0].desc == UNOPENED)
if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
{
    perror_with_name (cmp.file[0].name);
    status = EXIT_TROUBLE;
}
if (cmp.file[1].desc == UNOPENED)
{
if (same_files)
    cmp.file[1].desc = cmp.file[0].desc;
else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
    {
        perror_with_name (cmp.file[1].name);
        status = EXIT_TROUBLE;
    }
}

/* Compare the files, if no error was found. */

if (status == EXIT_SUCCESS)
status = diff_2_files (&cmp);

/* Close the file descriptors. */

if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
{
    perror_with_name (cmp.file[0].name);
    status = EXIT_TROUBLE;
}
if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc
&& close (cmp.file[1].desc) != 0)
{
    perror_with_name (cmp.file[1].name);
    status = EXIT_TROUBLE;
}
}

/* Now the comparison has been done, if no error prevented it,
and STATUS is the value this function will return. */

if (status == EXIT_SUCCESS)
{
    if (report_identical_files && !DIR_P (0))
message ("Files %s and %s are identical\n",
    file_label[0] ? file_label[0] : cmp.file[0].name,

```

```

    file_label[1] ? file_label[1] : cmp.file[1].name);
}
else
{
    /* Flush stdout so that the user sees differences immediately.
    This can hurt performance, unfortunately. */
    if (fflush (stdout) != 0)
pfatal_with_name (_("standard output"));
}

free (free0);
free (free1);

return status;
}

```

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# 1.387 plexus-classworlds 1.1-alpha-2

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Version 2.0, January 2004

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## 1.388 perl-exporter 5.68-3.el7

# 1.389 yum 3.4.3 163.el7.centos

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```
diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
+++ b/yum/update_md.py 2015-01-19 08:57:31.576489424 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
     except Errors.RepoMDError:
         continue # No metadata found for this repo

+
+ self.arch_storage = ArchStorage()
+ self.archlist = self.arch_storage.archlist
+
 def get_notices(self, name=None):
     """ Return all notices. """
     if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
     name = oldpkg tup[0]
     arch = oldpkg tup[1]
     ret = []
+
+ other_arch_list = []
+ notices = set()
 for notice in self.get_notices(name):
     for upkg in notice['pkglist']:
         for pkg in upkg['packages']:
+
+ other_arch = False
         if pkg['name'] != name or pkg['arch'] != arch:
-
- continue
+
+ if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+
+ other_arch = True
         else:
+
+ continue
         pkg tup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
                    pkg['version'], pkg['release'])
         if _rpm_tup_vercmp(pkg tup, oldpkg tup) <= 0:
             continue
-
- ret.append((pkg tup, notice))
+
+ if other_arch:
+
+ other_arch_list.append((pkg tup, notice))
         else:
+
+ ret.append((pkg tup, notice))
+
+ notices.add(notice)
```

```

+     for pkgtuple, notice in other_arch_list:
+         if notice not in notices:
+             ret.append((pkgtuple, notice))
ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
return ret

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.old 2015-05-28 19:23:35.589691937 +0200
+++ yum-3.4.3/yum/update_md.py 2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
import logginglevels

import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):
diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org 2017-01-24 18:55:03.529842775 +0100
+++ yum-3.4.3/yum/update_md.py 2017-01-24 18:55:57.213511475 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
    A single update notice (for instance, a security fix).
    """

- def __init__(self, elem=None):
+ def __init__(self, elem=None, repoid=None, vlogger=None):
    self._md = {
        'from'      : "",
        'type'      : "",
@@ -83,6 +83,9 @@ class UpdateNotice(object):
    if elem:
        self._parse(elem)

+ self._repoid = repoid
+ self._vlogger = vlogger
+
    def __getitem__(self, item):
        """ Allows scriptable metadata access (ie: un['update_id']). """
        if type(item) is int:
@@ -103,6 +106,24 @@ class UpdateNotice(object):
        # Tests to see if it's "the same data", which means that the
        # packages can be different (see add_notice).

+ def _rid(un):
+     if hasattr(un, '_repoid') and un._repoid is not None:
+         return un._repoid
+     else:
+         return '<unknown>'

```

```

+
+ def _log_failure(data):
+     """Log the mismatched data similarly to conflict markers in git."""
+     if self._vlogger is None:
+         return
+     msg = _('Duplicate of %s differs in some fields:\n')
+     msg %= other._md['update_id']
+     msg += '<<<<<<<<< %s:%s\n' % (_rid(other), data)
+     msg += '%r\n=====\\n%r\\n' % (other._md[data], self._md[data])
+     msg += '>>>>>>>> %s:%s' % (_rid(self), data)
+     # --verbose mode enables this
+     self._vlogger.log(logginglevels.DEBUG_3, msg)
+
+ if not other or not hasattr(other, '_md'):
+     return False

@@ -113,6 +134,7 @@ class UpdateNotice(object):
+     if data == 'status': # FIXME: See below...
+         continue
+     if self._md[data] != other._md[data]:
+         _log_failure(data)
+         return False
+     # FIXME: Massive hack, Fedora is really broken and gives status=stable
+     # and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
+     data = 'status'
+     if self._md[data] != other._md[data]:
+         if self._md[data] not in ('stable', 'testing'):
+             _log_failure(data)
+             return False
+         if other._md[data] not in ('stable', 'testing'):
+             _log_failure(data)
+             return False
+         # They are both really "stable" ...
+         self._md[data] = 'stable'

@@ -574,7 +598,7 @@ class UpdateMetadata(object):
+     for event, elem in safe_iterparse(infile, logger=self._logger):
+         if elem.tag == 'update':
+             try:
-                 un = UpdateNotice(elem)
+                 un = UpdateNotice(elem, repoid, self._vlogger)
+             except UpdateNoticeException, e:
+                 msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
+                 if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
+                 msg = _("Update notice %s%s is broken, or a bad duplicate, skipping.") % (un['update_id'],
+                 _rid(repoid))
+                 if not have_dup:

```

```
msg += _("\nYou should report this problem to the owner of the %s repository.") % _rid(repo_id, "%s ")
+ msg += _("\nIf you are the owner, consider re-running the same command with --verbose to see the '
+ 'exact data that caused the conflict.')
have_dup = True
if self._vlogger:
    self._vlogger.warn("%s", msg)
```

# 1.390 nspr 4.21.0-1.el7

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analysis/common/src/java/net/sf/snowball  
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analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt  
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fin/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  
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# 1.393 perl-getopt-long 2.40-3.el7

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## 1.396 libx11 1.6.7 2.el7

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

Source: <https://github.com/lz4/lz4>

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## 1.398 x-net 4.7.0

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in  
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including

the following new or changed files:

include/ipropr\_hdr.h  
kadmin/server/iproprd\_svc.c  
lib/kdb/ipropr.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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root function must still compute square roots.)

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@subheading END OF TERMS AND CONDITIONS

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```
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```

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```

```
@var{signature of Ty Coon}, 1 April 1990
```

```
Ty Coon, President of Vice
```

```
@end smallexample
```

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## 1.411 shadow-utils 4.6-8.el7\_7.0atomix1

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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 |      |       |     |        |    |        |
| -----                                    |      |       |     |        |    |        |

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

1bebf87248e05d6e4e62b749da65d023 bsd.img

Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe 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

2e1cee529cb59c9341afef0443f196a1 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):

/\*

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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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## 1.423 zlib 1.2.3

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

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# 1.427 boot-starter 2.0.4.RELEASE

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